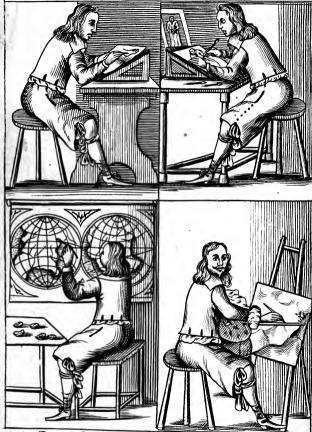






The Excellency of The PEN and PENCIL.



London Printed for Rich: Jones & Dorman Newman and are to be fold at their shops at the Golden Lyon and Chyrurgions Armes in Little

THE

EXCELLENCY

OF THE

PEN and PENCIL,

EXEMPLIFYING

The Uses of them in the most Exquisite and Mysterious Arts of

DRAWING, PAINTING in ETCHING, OYL, ENGRAVING, WASHING of LIMNING.

Also the way to Cleanse any Old Painting, and Preserve the Colours.

Collected from the Writings of the ablest Masters both Antient and Modern, as Albert Durer,
P. Lomantius, and divers others.

Furnished with divers Cuts in Copper, being Copied from the best Masters, and here inserted for Examples for the Learner to Practice by.

A Work very useful for all Gentlemen, and other Ingenious Spirits, either Artificers or others.

LONDON:

Printed by Thomas Rateliff and Thomas Daniel, for Dorman Newman and Richard Jones, and are to be fold at their shops in Little Britain, near the Lame Hospital Gare, at the Chyrurgeons Arms, and at the Golden Lyon. 1668.

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To the

READER.

Mong the many Operations of
Mysterious Nature, the IntelA lectual Part of Man hath no
equal: Among the multifarious
Productions of Man's Understanding, the Art of LIMNING

is by none excelled; whether we consider the Grandeur of Spirit therein expressed, or the Ingenious Delight thereby acquired. What Ray of the Great Creator's Image is more conspicuous in the Soul of Man, than that of Intense Desire to produce Creatures of his own? And wherein is that Inclination so compleatly answered, as by Delineating the Workmanship of God in Artificial Resemblances contrived and wrought by his proper Wit? Nor can any Satisfaction equal what is derived from the Perfection of these Designs. Are the Proportions exact? How strongly do they attract the Eye? Be the Shadowings accurate? How strangely do they affect the Mind? But if the Artist hath stoln so much of Promethean Fire as to add the Excellency of Life to well-

To the Reader.

well-disposed Lineaments, representing the Native Air and sprightly Gesture of the Person in vive; How unspeakably doth he gratify both?

To exercise this faculty and comply with this Fancy in Man, is this little Trast compiled, in

Five Books.

The Tirst lays down the Primordial Rudiments of the Art of Drawing with the Pen and Pastits: In a due and orderly Niethod proposing the Description of Man's Body in its distinct parts, presenting sundry Draughts of them in the plain Circumferential Lines, and giving Directions for the I roper Shades, as of Naked Bodies, so of Drapery; by Instructions and Copies so easy and intelligible, that the meanest Capacity need not doubt to undertake the Drawing of that Admirable Fabrick, and arrive to the Perfection of this Mystery in exact Symmetry, suitable Proportions, and enlivening Postures, if well perus d and practifed. For which pu pife also certain Geometrical Rules, Definitions, and Figures are inserted, to exemplify and adorn this Mistress of I roportion; in the Accomplishing whereof that nothing may be defestive, some succinst Advertisements concerning Landskip are added in the Close.

Having premised these more plain and easy Fundamentals, the Second proceeds to discover the Secret and Ingenious Skill of Etching mith Aqua fortis; where the most perspicuous and familiar Ground possible is described, and Prescriptions, for carrying on and perfecting that work, no less Rational annexed. And for as much as some may perhaps take more I leasure in, or reap more Prosit from, that of Graving;

To the Reader.

ving; you have the Instruments must Necessary in that kind, and the Manner of Using them must Convenient, particularly demonstrated; Together with that abstruse Slight of transferring the Copy upon

the Copper.

But because this alone may seem barely Mechanick, that which suits with the most Gentile, and can not derogate from the most Honourable, is offered in the Third; where the Requisits for Limning in Water-Colours are deposed, the Gums and their Waters in few words digested, the Colours particularly nominated, and the true way to prepare and compound them specified: All which are but as fo many Degrees and Ingredients to approach and accomplish the desirable and ultimate Design of Miniture; for the Practice whereof you are throughly furnished with the Choice of the meetest Light, Position, and Implements at hand, by the particular Description of Drawing a Face to the Life in ittle, according to its duly methodized Progress at the first, second, and third Sitting; not omitting the Ornaments thereunto perteining.

And to supply the Fading and Decay of these, the Fourth delivers Rules and Directions for Painting in Oyl, answerable to that depth of fudgement required in that more durable kind of Operation; naming the proper Colours, and declaring its peculiar Utensils, with accurate Instructions how to temper and diversifie the former, for all Complexions and Garments, of what variety soever; and to use the later in the Artificial Painting of a Face, the only Exemplar prescribed, because it includes all the Art and Disticulty of this Science.

To the Reader.

The Fifth, and last, displays a pretty supersicial Experiment; imparting what Colours and other Necessaries are best sitted for the Washing or Colouring of Maps and Printed Pictures: And, to best the divers Exigencies that concern this Affair, some Expedients put a Period to the Whole Work.

Plainness and Brevity (which may procure Contempt from the Nice or Vulgar) are sufficient to recommend this Piece to Ingenious Aspirers after any of those Excellencies therein taught; since they have done the Art and Artist Right, in rescuing both, from such obscure Intricacies and voluminous Impertinencies as would discourage the one, or disparage the other: And these Muniments have so justly prevented all Censure, that nothing can suggest the least Imputation of Difficulty but want of Diligence, nor any one surmise it Tedious but the Slothfull.

Farewell.



A Necessary TABLE, shewing the Chief Matters treated of in this Book. As,

CHAP. I.

A description of all the External Parts of Mans Body.

SEC1. 1. Of the fread.	rage 2
2. Of the Ear.	ibid.
3. Of the Eyes.	ibid.
4. Of the Nose, Mouth, Chin,	Neck.
and Throat.	3
5. Of the Fore-part of the Body.	5
. 6. Of the Hinder-part of the Bod	
7. Of the Arms, Hands, and Finge	rs. ib.
8. Of the Legs, Feet, and Toes.	8
CHAP. II. Of Actions, Gestures, Decorun	s. Mo-
tion, Spirit, and Grace in Pictures rightly Ref	
SECT. 1. Of Action or Gesture.	9
2. Of the Passions or Complexion	
CHAP. III. Of Necessary Instruments	apper-
taining to Drawing.	. 11
How to make Pastils of several Colours.	12
A way to Draw an Escutcheon Geometricall	y. ib.
To Draw a Geometrical Oval.	15
Some Geometrical Definitions.	16
CHAP. IV. Of the First Practice of Dra	wing.
SECT. 1. Of Geometrical Figures.	18
Five Columns of Architecture.	19
a 4	2. Of

2. Of the Second Practice of Drawin	g.20
3. Of the Third Practice.	ib.
4. Of the Fourth Practice.	ib.
	ly of
) •j · -
	ce.21
2. To Draw a Fore-right Face.	22
	ib.
4. Of the Inclining and Fore-sho	
	23
5. Of the Noie, Mouth, and Chin.	26
5. Of Hands, both Palm, Back	, and
Sides; as also open and closed	: and
likewile of Hands and Arms jo	
667 16 17 61 1 1	28
	41
10. The Proportion of the Body of	
	46
P. VI. Of Shadowing, and Rules to	be ob-
	47
Served therein.	45
P. VIII. Of Landskip, and Rules to	
served therein.	46
્રિંદી હતી છે.	O
	Jace. 5. Of the Nose, Mouth, and Chin. 5. Of Hands, both Palm, Back Sides; as also open and closed likewise of Hands and Arms jo 6. Of Feet in several Positions, both and without Measures; as a Feet and Legs joyned togethe 7. Of the Back, Breast, Secret men Thighes, Shoulders, &c. 8. Of Whole figures from head to so 9. Rules of Symmetrie or Proporti be observed in Drawing the Body of Man or Woman. 10. The Proportion of the Body of P. VI. Of Shadowing, and Rules to served therein. P. VII. Of Drapery, and Rules to served therein. P. VIII. Of Landskip, and Rules to served therein.

The TABLE. Of Etching and Graving, the Second Book. CHAP. I. Of Etching With Aqua fortis. SECT. 1. To make Mr. Hollar's Ground, and how to Etch in Copper; and what Instruments ought to be used in the Practice thereof. ib. 2. How to prepare your Copper. 49 3. How to lay the Ground upon the Plate. 50 4. How to Transfer your design upon the (opper. 5. How to wall about your Plate with Wax, to lay on your Aqua fortis, and to finish your Work. ib. CHAP. 11. Of Graving. Graving. 53 r'. Of your Oyl-stone. ib. 2. Of Gravers. Or feveral wayes of Holding the Graver. The forms of Graving-tools, as also

SECT. 1. Of necessary Instruments belonging to the manner of Whetting your Gra-

The manner how to hold and handle your Graver.

The manner of holding your Hand in Graving.

6. How to take off any Picture, or Mapletters, &c. upon your Copper. 61

Of Limning in Water-colours, the Third Book.	
CHAP. I. Of Necessaries belonging to Limning. 64	Ł
SECT. 1. Of Gum-waters used in Limning. 69	
Of Gum-Lake.	
Of Gum-Armoniack.	
Of Liquid Gold or Silver.	
2. Of your Grinding-stone and Muller. it	
3. Of Colours	
CHAP. II. Of Colours used in Limning, thei	
names, and how to order them.	
SECT. 1. Of the Names of Colours, and how	7
every Colour is to be prepared	:
whether Grownd, Washed, o	ŕ
Steeped, 69	
2. Of those Colours that are to b	e
Grownd, & how to Grind them. 70	
3. Of those Colours that are to be Wash	
ed, and how to Wash them.	
4. Of Colours to be Steeped. ib	
5. Of those Colours that are to be Wash	-
ed and Grownd, and how to tempe	
them in your Shells when you are to	
use them.	
6. Of Pencils, and how to choose them. it	
7. Of Compounded Colours. 7.	
CHAP. III. How to prepare a Table for Picture i	
small for Limning, to make use of your Light, th	
manner of Sitting in respect of Position and Di	
stance, and what necessary Instruments are to lye b	y
you when you are at work. 70	
SECT. 1. How to prepare a Table for a Pictur	
in Small.	
2. ()	-

2. Of your Light.	ib.
3. Of the manner of Sitting.	7:
4. Of such Necessaries as are to lye	br
you while you are at Work.	78
CHAP. IV. Of the Miniture or Limning	- 1
Face in Water-colours.	80
SECT. 1. At the first Operation or Sitting.	81
2. At the second Operation or Sitting	
3. At the third Operation or Sitting.	85
CHAP. V. Of Drapery, and other Ornaments	_
longing to a Picture in Miniture.	ib.
SECT. 1. Of Drapery in Limning, 2. Of other Ornaments in Pictures,	86
	ib.
CHAP. VI. Of Landskip. Of Painting in Oyl, the Fourth Book.	87
CHAP. I. Of the Names of your Colours, and	Lana
to Grind and order them.	
CHAP. II. Of your Easel, Straining-Fra	90
Cloth, Pallat, Pencils, and Stay.	
Names of several forts of Pencils.	91
	93
CHAP. III. How to order your Colours upon	
Pallat, and how to temper Shadows for all C	
plexions.	ib.
1. For a Fair Complexion.	94.
2. For a more Brown or Swarthy Complex	
	95
3. For a Tawny Complexion.	ib.
4. For an absolute Black Complexion,	96
CHAP. IV. what Pencils are usefull for	the
Painting of a Face, and how to dispose them.	97
CH	

CHAP. V. How to Paint a Face in Oyl-cold	ours.
	98
CHAP. VI. Of Garments of several Colours,	and
of their proper Colouring.	ib.
CHAP. VII. To temper Colours for several of	cca-
sions.	104
Of things meet to be known.	105
The Discovery, how to Cleanse any Old Pa	int-
ing, fo as to Preserve the Colours; with o	
tions to those that through Ignorance,	
in stead of Cleansing, quite Defeced, or i	rre-
coverably lost the Beauty of good Colou	
an Old piece of Painting.	106
Of Washing or Colouring of Maps and Pri	nted
Pictures: the Fifth Book.	108
CHAP. I. What things are necessary to be alm	vayes
ready for Washing of Maps or Pictures.	ib.
SECT. 1. Of Colours for Washing.	ib.
Colours to be used in Washing, which are	
used in Limning.	109
2. Of other Necessaries.	ib.
1. Of Allum-water, how to make it.	112
2. How to make Size.	ib.
3. How to Temper Gold to write with a Pe	n or
Pencil.	113
4. Of Pencils.	114
CHAP. II. Of other Colours for Washing,	both
Simple and Compounded.	ib.
1. How to make a Green Colour of Co	pper
Plates.	ib.
2. To make a Green another way.	ib.
3.	An-

3. Another Green.	115
4. For a Light Green.	ib.
5. To Shadow Greens.	ib.
6. Greens for Landskips and Rocks.	ib.
7. To make a Blew.	ib.
8. Of Shadowing Blews.	116
9. To make a Brown.	ib.
10. Spanish Brown.	ib.
11. How to make an Orange-colour.	ib.
12. A Flesh-colour.	117
13. Colours for the Sky.	ib.
14. To make Colours for Precious Stones.	
15. Colours for Landskips.	118
16. Colours for Buildings.	119
17. How to Shadow every Colour in Gar	
or Drapery.	ib.
CHAP. III. General Rules to be observed.	120
What Colours fets off hest together.	ib.
SECT. 2. Directions for the Mixing of	f your
Colours	7/27



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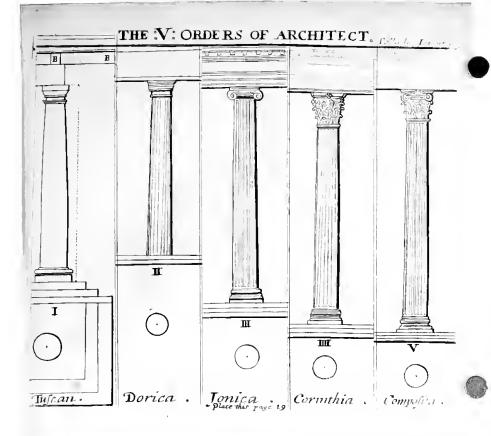
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O F

DRAWING.

The First Book.

The Introduction.

RAWING confists of Several Generall precepts to be learnt of every one that is desirous to attain to Perfection therein; the practice of which requires Observation, Discretion, and Judgement; in which, Proportions, Motions, and Actions are with great care and diligence to be followed: And therefore he that will attain to the perfection of this excellent Practice, it is necessary he bould not be ignorant of Mathematical Demonstration in the Rules of Geometry and Perspective; of which in this Book you shall receive Instructions. Of all other proportions, the Body of Man hath the preheminence for excellency, from which all other Arts are derived, as many of the learned have concluded; for Vitruvius noteth, that the Architect hence took the observations of his Buildings, Man being the first pattern of all Artificial things: and Antiquity hath fo graced Painting, (as being the chief Mistress of Proportion) so that all other Artificers are called Handy-crasts or Mechanicks.

CHAP.

CHAP. I.

A description of all the External parts of Man's Body.

SECT. I. Of the HEAD.



N Man's body the highest part is the H E A D; the fore-part is called the *Forehead*; the turning of the hair, the *Crown*; the root of the hair above the forehead, the *Center*; the parting of the

hair, (especially of Women) is called the Seam.

The Forehead conteineth all the space between the root of the hair before, and the eye-browes: the Pulse is the highest part of the sorehead, ending with the hair: Metone is the swelling out in the forehead above the eye-browes: the Temples lye betwixt the pulse, the forehead, and the ear.

SECT. II. Of the EAR.

He E AR turns between the temples, the upper part of the cheek, and the root of the hair; by the fide of the head the lower part is called the sipp, in the midst whereof is the hole where the found entreth in

SECT. III. of the EYES.

The EYE-BROWES are those thick hairs at the bottom of the sorehead: the upper eye-lid is that little part which compasseth the upper part of the eye: the eye is that round ball which is contained between the upper and lower eye-lids: the black of the eye is the round spot in the midst of that little circle, by virtue whereof we see, and is called the apple or sight of the eye: the outward corner of the eye is next the ear, the inner is toward the nose; all the space between the upper eye. lid and the outward corner of the eye, and the whole turning of the eye to the upper part of the cheek is called the case or hollow of the eye.

SECT. IV. of the NOSE, MOUTH; CHIN, NECK, and THROAT.

He NOSE is between the cheeks, descending from betwixt the eyes, and endeth at the nostrils which hang out on each side at the bottom thereof, each whereof hath an hole or passage, whereby we smell.

The lower end of the nose which standeth forward is called the top or point, the rising in the midst the ridge or grifle; the upper Cheek is that space between the ear, the hollow of the eye, the nose.

and and

and the lower Cheek; whereof the part rifing towards the eye, is named the ball: the lower Cheek is bounded with the upper, the nostrils, the mouth, the chin, to the throat and the neck under the ear: the Opper lip is that red piece of flesh above the mouth.

The MOVTH is that division between the upper and neither lipps, which is red like the other; that concavity which cometh down from the bottom of the nose to the upper lip, is the gutter of the

nose.

The roof of the mouth is called the pallat; the tongue is that which moveth in the mouth; the passage between the lungs and the mouth is called the wind-pipe, through which the breath passeth; the gum is that piece of slesh in which the teeth are sastend; the four first whereof are called dividers, next unto which on each side are the dog-teeth; the other sive on each side with their roots, are the grinders or cheek-teeth; so that the full number of Teeth is thirty two.

The CHIN or place of the beard, is the extremity beneath the lip and the end of the face,

whose beginning is the root of the hair.

The hinder part of the head under the crown is called the nape, where the hairs grow; behind is

the beginning of the neck

The THROAT is between the chin and the beginning of the body or trunk, in the midd whereof is that rifing called the throat-bone; the concavity of the neck before, between the end of the throat and the beginning of the breast, is the throatpit.

The

The NECK is that part behind between the root of the hair and the beginning of the back-bone, which on either fide is joyned with the throat, and at the lower end of the neck with the shoulders, whereof the bone in the midst is called astragalus, or the bone that knits the neck with the shoulders; the whole trunk or body before containeth the upper fork of the stomack or breast, which begins at the end of the throat-pit.

SECT. V. of the FORE-PART of the Fody.

The fore-part of the body, as the Breasts or Papps, end with the short ribs, and they are called the part under the papps, and in Women are called daggs, the heads of which whence the milk is suckt out are called Nipples; the space between the breasts or duggs at the lower fork of the breast is the chest; the arm-pits are the hollows under the armes, where the hairs grow.

The Short-ribbs begin at the end of the papps, and reach to the flanks near the belly; the Flanks begin at the end of the breast, and are called the waste; the upper part of the belly lies between the hollow of the breast, the waste above, the navel, and the ribbs; the knitting of the intrails is called

the Navel.

The Paunch lieth between the waste, the privities, and the flanks, and is also called the Belly; especially in Women; where the hairs grow under the

A 3 belly,

The Excellency of the

belly, is the Privities; the hollow compass at the top is called Corona, the place which the urine passeth through is called the Hole, the two little balls that hang under the Yard the Stones, the Privities of a Woman are called, &c.

SECT. VI. Of the HINDER-PART of the Body.

The hinder part of the body called the Back or Chine confilts of the foulder-blade, which is the part behind the fhoulders end, with part of the chine and loynes; the rest of the back reacheth down along from the neck to the beginning of the clest of the buttocks, the loynes lie between the shoulder-blades; the ribbs and the rest of the chine to the reins or maste.

The REINES reach from the loynes to the buttocks, and do properly belong to the part below

the Waste.

6

The BUTTOCKS are that fleshy part which serve us for sitting.

SECT. VII. Of the ARMES, HANDS, and FINGERS.

He Arme contains the shoulder, behind which is the back, beginning between the neck and throat, and reacheth to the shoulder-blade, behind which place is properly called the Back; the part

of

of the arme from the elbow upward, is called the upper brawn of the arme; the Elbow is the bowing of the arme, the inside whereof is the foynt; and at the lower part of the arme begins the wrist, where the arme is joyned to the hand, the palm is the inside of the hand between the wrist and the singers, the thumb is the biggest and shortest of the singers.

The Fore-finger is next to the thumb, the middle-finger is that which stands in the midst, and is longer then the rest; next unto this is the Ring-finger, the Ear-finger or Little-finger is the least and last.

The foynts of the fingers are even in number, viz. three upon each, except the thumb, which hath

but two.

The hinder part of the arme reacheth from the end of the shoulder or arme-pit to the elbow, where the second part of the arme beginneth, reach-

ing to the wrist-joynt.

The back of the hand reacheth from the wrist to the first joynts of the singers, and is called *Petten*, the spaces between the joynts are called *Internodi*, which are two upon each singer, except the thumb, which hath but one; in the space between the last joynt and the top of the singer is the Nail, whose bowing is called *Corona*, (I mean where it toucheth the sless has a single transport of the standard or skin.

The whole hand begins at the wrift, and reach-

eth to the top or extremity of the fingers.

SECT. VIII. Of the LEGS, FEET, and TOES.

which begins at the trunk of the body, and ends at the knee; the hollow of the thigh is the inner side below the privities; the knee begins at the round bone at the end of the thigh, and reaches to the beginning of the shin-bone; the instep begins at the end of the shin-bone, and reaches to the beginning of the shin-bone, and reaches to the beginning of the toes, and is called the upper part of the foot, the ancle is that bone which buncheth out on each side between the instep and beginning of the heel.

The Small of the leg is the space between the end of the two calves above, and the ancle, instep, and heel below; the Pit of the foot is the hollow under the hill or higher bunch of the foot towards the soles.

The TOES have also joynts as the fingers, though they be somewhat shorter, and have also nails in like manner, and are otherwise called, as

1.2.3.4.5.

The hinder part of the leg begins under the buttock, and is called the thigh, and endeth at the hinder part of the knee, called the hamme or bending; the calves of the legs begin under the hamme, and are two upon each leg; the outward, which endeth fomewhat high; and the inward, which reacheth neater to the small of the leg, which diminisheth by degrees to that part a little above the ancle; the heel is that part of the foot which rifeth out backwards, reaching from the end of the leg to the bottom of the foot, called the Sole, which beginneth at the end of the heel, and reacheth to the top of the toes, containing likewise the spaces between the joynts underneath orderly. Thus much for the External parts of Mans Body; all which are deciphered in the Sculptures following.

CHAP. II.

of Actions, Gestures, Decorum, Motion, Spirit, and Grace in Pictures rightly resembled.

SECT. I. Of Actions or Gestures.

Hese are those that most nearly resemble the life, be it either in laughing, grieving, sleeping, fighting, wrastling, running, leaping, and the like.

Amongst the Ancients, famous for lively motion and gesture, Leonard Vincent deserves much, whose custom was to behold clowns, condemned persons, and did mark the contracting of their browes, the motions of their eyes and whole bodies; and doubtless it cannot but be very expedient for an Artist in this kind to behold the variety of exercises, that discover various actions, where the motion is discovered between the living and the dead, the sierce and the gentle, the ignorant and learned, the sad and the merry.

The Excellency of

John de Bruges was the first inventer of Oylpainting that deserved excellently in this particular.

SECT. II. Of the Passions or Complexions.

Mans Body is composed of the sour Elements.

Melancholy resembles Earth.

Flegm the Water. Choler the Fire.

10

Bloud the Air; and answerable are the Gestures and Humours.

Melancholy bodies are flow, heavy, and refirained; and the consequents are anxiety, disquietness, sadness, stubbornness, &c. in which horrour and dispair will appear.

Flegmatick bodies are simple, humble, mercifull.

Sanguine bodies are temperate, modest, gracious, princely, gentle, and merry; to whom these affections of the minde best agree, viz. love, de-

light, pleasure, desire, mirth, and hope.

Cholerick bodies are violent, boysterous; arrogant, bold, and sierce; to whom these passions appertain, anger, hatred, and boldness; and accordingly the skilfull Artist expresses these motions of these several bodies, which ought Philosophically to be understood.

Now to proceed according to our promised Method, to the Practical part; and here first the Learner must be provided with several Instruments.

CHAP. III.

Of necessary Instruments appertaining to Drawing.

I. S Allow coals split into the forms of Pencils, which you may best have of those that sell Charcoal ready burnt for your use; these are to be prepared by sharpning them at the point, their use is to touch over your Draught lightly at the first; you may know Sallow coals from others by the fineness of their grain.

2. You must also have a Feather of a Ducks wing, with which you may wipe out at pleasure

what you defire to alter in your Draught.

3. Black-lead Pencils, to go over your Draught

more exactly the second time.

4. Pens made of a Ravens quill, to finish your design; which will strike a more near stroke then the common quill: but you must be very exact here, for there is no altering what you do with the Pen.

5. A Rule and a pair of Compasses with three Points to take in and out; one for Chalk, another for Black lead, or red Chalk, or any other Passe. The use of the Compasses is required in most things you draw, which you are to use after your outstroke is done, by trying how near your Draught and Pattern agree, and this being only toucht out in Charcoal, you may alter at pleasure.

6. Pastils

6. Pastils made of several Colours, to draw up. on coloured Paper or Parchment, the making whereof is as followeth.

How to make Pastils of several colours.

Take the Colour that you intend to make your Passil and grind it dry, or rather only bruise it somewhat sine; to your Colour (whatsoever it be) add a reasonable quantity of Plaister of Paris burnt and finely sisted, mix and incorporate the Colour and Plaister together with fair Water till it be stifflike Clay or Dough; then take it and rowl it between your hands into long pieces, about the bigness of the shank of a Tobacco-pipe, then lay them in the Sun or Wind to dry. They being thus dryed are ready for the being finely scraped to a year small role. for use, being finely scraped to a very small point; and if they be short, put them into an ordinary Goose-quill to lengthen them.

And here note, that you may by this means make Pastils of what Colour you please, either sim-ple or compounded, if you know what ingredients and mixtures will make such a Colour as you desire; which you will understand in the third Book, where we treat of the Mixture of Colours. And further observe, that the Plaister of Paris is only to binde the Colours together; and therefore according as your Colour or Colours you are to make are more hard or more soft, you must add the greater or lef-fer quantity of Plaister.

By this means of tempering and mixing of several Colours together, you may make (indeed) whatfoever foever colour you please; as all manner of Colours for the Face or Bodie of Man or Woman, all kind of Greens for Landskip, for Rocks, Skies, Sun-beams; all colours for Buildings, with their Shadows.

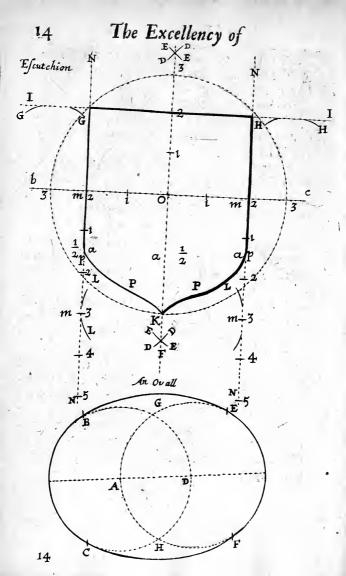
These Pastils are very fine and commodious for drawing upon coloured papers, and therefore I

would have you,

7. Provide your felf also of fine Blew paper; some light-coloured, other-some more sad; as also with Paper of divers other colours, which now

is very common to be fold in many places.

8. Have alwayes in a readiness by you the Crumbs of fine Manchet or White-bread; the use whereof is, when you have drawn any thing with Black-lead that difliketh you, you may strew some of these Crumbs upon the desective member, and with a linnen cloth rub it hard upon the defective place, and it will fetch out the Black-lead, and leave the Paper or Parchment fair and white. It is also usefull when you have finished a piece, either Head, Leg, Arme, or whole Bodie with Black-lead, and would trace it over with Ink to finish it, the Blacklead will be feen in many places, being thicker then the line of your Pen; wherefore when you have finished your Drawing with Ink, and that dry, rub it over with these Crumbs, and it will not only take off the superfluous Black-lead, but all other spots of your Paper,



A way to Draw an Escutcheon Geometrically.

First strike a Circle at pleasure, as your occasion requires.

Then strike the Diameter as BC, then set one foot of the Compasses in B, and strike the crooked lines D D and D D, then keeping the Compasses at the same distance, strike the other crooked lines EE and EE, then where they do interfect as FF, there strike the cross Diameter; then divide the upper Semidiameter into three parts, and take two of them, there make the Cross-line, by setting one foot of the Compasses in B, and make the crooked line GG, then at the same distance make the crooked line HH, by fetting them in C, then strike the line II, then measure two or three of those parts, and set off towards B and C, then set the Compasses in K, and strike the lines LL and LL, then set the Ruler in MM and MM, and strike the lines in NN and NN, and divide the lower Semicircle in two equal parts, then fet the Compass in O, and strike the lines PP and PP from AA, then measure from MN downwards. five of those parts of the upper measure, then set the Compasses at N 5 and N 5, and strike the lines KP and KP, and you have your defire.

To Draw a Geometrical Oval.

His Oval is drawn by drawing two equal Circles, then fet the Compasses in D, and strike the

the Arch BC, and at the same distance set them in D, and strike the Arch FE, then set them in G, and strike the Arch CF, then set them in H, and firike the Arch BE.

Some Geometrical Definitions.

Point is void of magnitude.
2. A Line is a length without breadth or thickness; and of the three kinds of magnitudes in Geometry, viz. Length, Breadth, and Thickness, a Line is the first.

- 3. The ends or bounds of a Finite-line are points; but in a circular Line, the points motion returns to the place where it first began, and so makes the Line infinite, and the ends or bounds undeterminate.
 - 4. A Right-line lyeth equally betwixt his points.

5. A Superficies hath onely Length and Breadth. 6. A plain Superficies is that which lyeth equally

between his Lines.

7. A plain Angle is the inclination, or bowing of two Lines the one to the other, the one touching the other, and not being directly joyned together: an Angle commonly signed by three Letters, the middlemost whereof shews the Angular point.

8. If the Lines that contain the Angle be right

Lines, then it is called a Right-lined Angle.

9. When a Right-line standing upon a Rightline, makes the Angles on either fide equal, then either of these Angles is a Right-angle, and Right-line which which stands erected, is called a Ferpendicular-Line to that wherein it stands.

10. An Obtule-angle is that which is greater

then a Right-angle.

11. An Acute-angle is less then a Right-angle.

12. A Limit or Term, is the end of every thing.

13. A Figure is that which is contained under one Limit or Term; or many, viz. a Round-line, three Right-lines, four Right-lines, five Right-lines, &c.

14. A Circle is a plain figure contained under

one Line, called a Circumference.

15. A Diameter of a Circle is a Right-line drawn by the Center thereof, and ending at the Circumference.

16. A Semi circle is a figure contained under the Diameter, and that part of the Circumference cut off by the Diameter.

17. A Section or portion of a Circle, is a figure contained under a Right-line, and a part of the Circumference greater or less then a Semi-circle.

18. Right-lined figures are such as are contained

under Right lines.

19. Three-sided figures are such as are contained under three Right lines.

20. Four-fided figures are fuch as are contained

under four Right lines.

21. Many-fided figures are fuch as have more fidesthen four.

22. All-three-sided figures are called Triangles.

23. Four-sided figures a Quadrater, a Square is that whose Sides are equal, and his Angles right.

3 24. A

24. A Long-square is that which hath right Angles, but unequal Sides.

25. A Rhombus is a figure having four equal

Sides, but not right Angles.

26. A Rhomboides is a figure whose opposite Sides are equal, and whose opposite Angles are also equal, but it hath neither Sides, nor equal Angles.

27. All other figures of four fides, befides these, are called Trapez, as such are all figures of four fides, inwhich is observed no equality of Sides or Angles.

28. Parallel or equi-distant Right-lines are such, which being in one and the same Superficies, and produced infinitely on both sides, do never in any part concurr, but still retain the same distance.

CHAP. IV.

of the first Practice of Drawing.

SECT. I. Of Geometrical Figures.

Being provided of all necessary Instruments for Drawing, proceed to Practice; and first begin with plain Geometrical figures, such as the Circle, Oval, Square, Triangle, Cone, Cylinder; all which your Rule and Compasses will help you in: but first endeavour to draw them by hand, which with a little practice you may attain. I have my felf, by taking a Black-lead Pencil in my hand, and holding it as I do a Pen, and resting the end of my little

little finger upon my paper, turning the paper about with my left hand, and have described a Circle so exact, that a pair of Compasses could not discover an errour: I say, practice the making and drawing of these by hand, for they are all usefull in

one kind or other. Example.

The Circle will help you in all Orbicular forms; as, the Sun in its glory, the Moon either full or crescent, and infinite other Circular shapes. The Oval is a direction for the Face, for the mouth or foot of a wine or beer-glass, the mouth of a well, &c. The Square is affistant to you in confining your Picture you are to copie, and keeping it within bounds. The Triangle for the half-face, as in the Figures following you will easily discern. The Cone will help you in drawing of Flute-Colasses, now much in fashion; as also in Spire-Steeples and tops of Tomers. The Cylinder will be of good use in drawing of all manner of Columns, Pillars and Pilasters, with their Ornaments. These (indeed) are so usefull, that hardly any thing can be effected in which they they are not ingredient.

And now, fince it falls in my way so opportunely, I will insert the sign of the Five orders of Archite-Aure, that you may know them when you see them either painted, or built in Brick or Stone.

Place here the Five Columns of Architecture.

ber mt. s. 1'de

SECT. II. Of the second practice of Drawing.

Aving practifed these Figures, proceed to the drawing of Cherries, Pears, Apples, Apricocks, Peaches, Grapes, Strawberries, Peascods, Buttersties, and such like.

SECT. III. Of the third Practice.

Mitate Flowers, as Roses, Tulips, Carnations, &c. Also Beasts; first the more heavy and dull, as the Elephant, the Bear, the Bull, the Goat, the Sheep, &c. Then them more fleet and nimble, as the Stag, the Hart, the Nag, the Unicorn, and the like. Then practice Birds, as the Eagle, the Swan, the Parrot, the King-fisher, the Partridge, the Pheasant, and such like. Then Fishes, as the Whale, Salmon, Herring, Pike, Carp, Thornback, Lobster, &c. Of all which there are Books to be bought at very reasonable rates.

SECT. IV. Of the fourth Practice.

Mitate the Body and Parts of the Body of Man; in the practice whereof beware of the common errors usually committed, as of drawing the Head too

too big for the Body, and others the like; which to prevent, you have here presented to your view the Heads, Noses, Monthes, Hands, Arms, Feet, Legs, Bodies; also whole Figures of Men, Women, and Children in several postures; being Copies of the best Masters extant, with Rules and directions for Drawing every particular member of the bodie, and that I would have you now to practice, you having gone sufficiently forward with the others before noted.

CHAP. V.

Directions for Drawing the Body of Man or u oman.

SECT. I General Rules for Druming the Face.

In Drawing the Face, observe its motion whether forward, upward, downward, or side-wayes, by your Eye; touch lightly the seatures where the Eyes, Nose, Mouth, and Chin should stand, dand then go over them more perfectly. The Circle, Squares, and Triangles that are used in a Face, serve to guide your judgement where to place the several seatures.

Observe diligently the principal Muscles of a Eace suthese appear most in an aged man or wo-

mans face.

There is usually a three-fold proportion observed

in a Face: 1. From the top of the Fore-head to the Eye-browes: 2. From the Eye-browes to the bottom of the Nose: 3. From thence to the bottom of the Chin; but in some the Fore-head is lower; others Noses are longer.

The Distances between the Eyes, is the length of one Eye in a full face; but in a three-quarter, or

side-face the distance is lessened answerable.

The Nostritought to be plac'd exactly against the

corner of the Eye.

In a fat Face you will perceive the Cheeks swell, in a lean Face the Jaw-bones slick out, and the Cheeks fall in.

A smiling countenance is discerned by the Mouth,

when the corners of the Mouth turn up a little.

A frowning countenance is discerned in the Forehead, Eye-browes, bending and somewhat wrinkling about the top of the Nose, &c.

SECT. II. To draw a Fore-right Face.

MAke the form of a perfect Oval divided into three equal parts by two Lines; in the first part place the Eyes, in the second part the Nostrils, and in third part the Mouth.

Note, that the Eyes must be distant one from the other the length of one of the Eyes, and that their inner corners be perfectly over the out-side

of the Nostrils.

SECT.

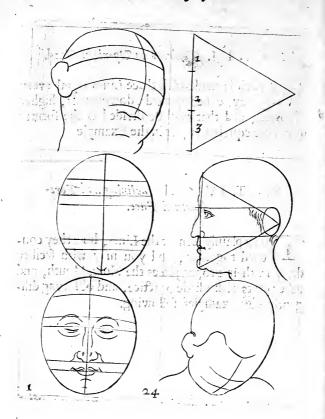
SECT. III. To draw an Up-right Head.

Which is made with three Lines equal every way, either upwards, downwards, higher or lower; and that must be divided as the former into three equal parts, as in the Example.

SECT. IV. Of the Inclining and Foreshortned Fase.

This is plainly seen by the Lines, how they concord together, and you may with facility draw in their proper places the Nose, Mouth, and other parts with a little practice, and observing diligently the Examples following.

The Excellency of



In these Formes you must be very perfect, it being a Rule that in most Faces you may have occasion to make use of: for of all the parts of Mans bodie the Face is the most difficult. But having got the Proportions with their Measures, you will be able (which way soever a Face turns) to form it out, whatever proportion your Face is you are to imitate, so must your Out-stroke be formed; whether long, round, fat, or lean.

Because presidents are most usefull, I have here thought good to give you the forms of several Eyes more at large, by which you may with more ease

know the truth of their Proportions.

As also Ears, which are exactly to be known; and then the forms of several Noses and Mouthes; all which are taken from eminent Masters, as Palma and others. [In the following Page.]

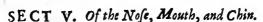
Tr. V. Oliber for Moust and Chia

TOJAR feistler of coincar por fiberace;

- in which obferred the hollower is, room inefe, or the Folking, as then appear in the television of the first parenwed from Fister.

1. Definibe a S. mi-cheles io remobile. 2. Make the Holmon he Nag. 3. The addition of the Noffrik.





He Nose is the most eminent part of the Face: in which observe the hollowness, roundness, and the Nostrils, as they appear in these several Figures borrowed from Fiolet.

1. Describe a Semi-circle downwards.

2. Make the Holes of the Nofe.

3

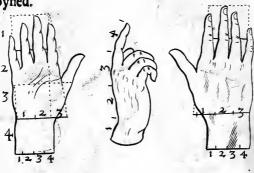
2. The addition of the Nostrils.

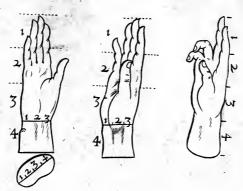


SECT. V. Of Hands, both Palm, Back, and Sides; as also open and closed: and likewise of Hands and Armes joyned.

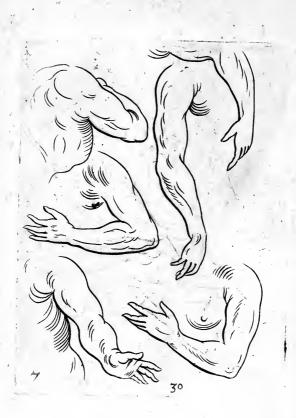
Having sufficiently practised the Drawing of Mouthes and Noses, let your next exercise be in drawing of Hands in all positions, both by measures, and without; as also Hands and Armes

joyned.





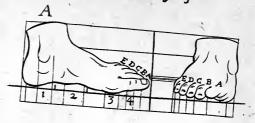


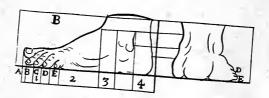


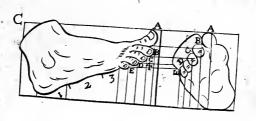
SECT. VI. Of Feet in several positions, both with and without measures, as also of Feet and Legs joyned together.

Being expert in the Drawing of Hands and Arms, proceed to the Drawing of Feet in all postures, both with and without measures; which having attained, exercise your self in Drawing of Legs and Feet joyned together, as before you did of Hands and Arms; that so you understanding the particulars of the whole Bodie, you come with the more judgement to that great difficulty of Figures of the whole Bodie of Man. To help you therein, I have set before you the easiest and truest Rules that the best Masters of Proportions have published, with a Discourse of their true Measures: which will be the more easie, if you seriously weigh the foregoing Chapter, treating of all the external parts of Mans bodie; for then you will have occasion to observe it; but first exercise your self in sollowing these examples of Feet, as also of Feet and Legs joyned together. [See the 2. following Pages.]

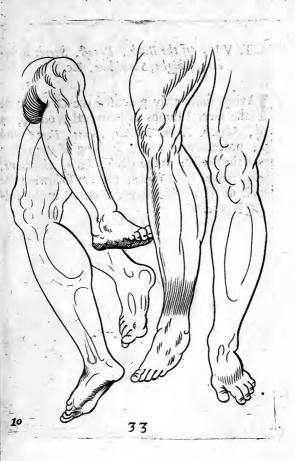








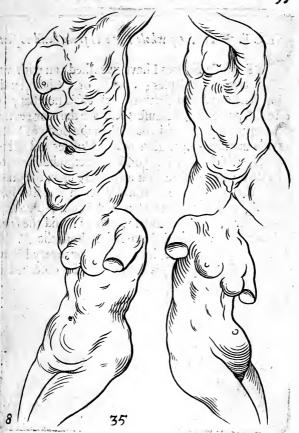
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SECT. VII. Of the Back, Breast, Secret members, Thighs, Shoulders, &c.

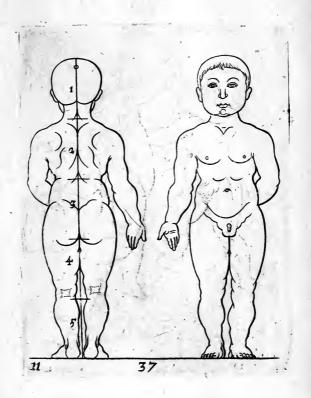
Having sufficiently practised the Drawing of the several Limbs of Man and Woman, as Head, Month, Nose, Hands, Arms, Feet, and Legs; proceed next to the drawing of the other parts of the Bodie: as the Back, Belly, Shoulders, Breast, Secrets, and Thighs, therein following the example of this noble Master Palmas, in the sollowing Figure.

SECT.



SECT. VIII. Of whole Figures from head to foot.

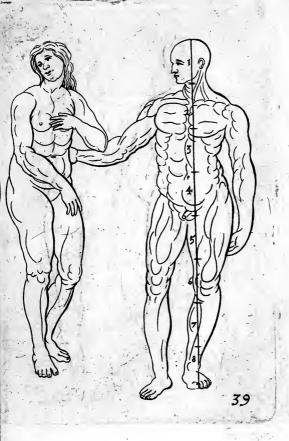
F whole Figures I have furnished you with variety of examples; as first, of a Child standing backward and forward, which is necessary to be first practised, because these are the more easie, being more plump and round then the Body of Man, without that observation of the Muscles and other parts, which I desire you in a methodical way to imitate often before you adventure upon the other Figures, which are Man and Woman standing forward, and after that Man and Woman standing backward, as also in other postures: and the same order that was at first proposed about the Heads, Hands, and Feer, &c. by touching out every Figure first with Charcoal, is exactly to be observed in these Figures also.

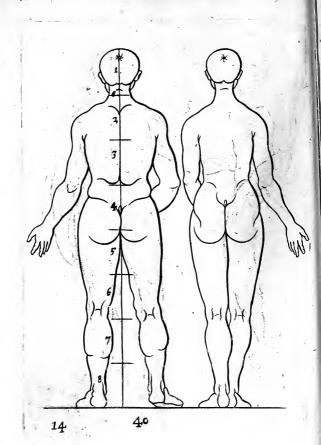


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SECT.







SECT. IX. Rules of Symmetrie or Proportion to be observed in Drawing the whole Body of Man or Woman.

FOR your further help in Drawing the fol-lowing Figures, take notice of these necessary Rules: Begin at the Head, and so proceed by de-gree, as your pattern directs; and be carefull that your parallel Joynts, Sinews, or Muscles be directly opposite; also that the Motion of the Bodie be answerable one part to another, and that the parts and limbs of the bodie have a due symmetrie; not a great Arme, and a small Leg; or a small Hand, and a great Finger, &c. Let not one part be too long for another. Of all which, you must know, that at first you will be apt to commit many errours, but be not disheartned; proceed, and your labour will not belost, experience is gained by practice; be but diligent, and you will find more ease then you could imagine: at first all things that are attainable seem difficult; we have a good old saying, Nothing is hard to a willing mind, and I can speak it by experience. I might spend time to tell you many stories how to proceed to Figures clothed, &c. but if you can draw a Naked figure well, for the order of Garments, you will be able to do that with eafe,



the Penand Pencil.







45

And now, having brought you thus far in Practice, and given you a more exact order to proceed with so many several Examples more than larger Volumes have produced; which you having well followed, and attained to some reasonable measure of proportion, you may now proceed to that which may be more profitable, if you first practice those things that may be easily shadowed with a Pen, and that will fit your hand for Etching with Aqua fortis, which shall be perfectly taught in the next Chapter; wherein you have the mixture of the Ground to Etch upon, the order how to prepare your Copper, and how to order your Aqua fortis, what Instruments you are to use about the same, and how to take off your design on the Plate; which is an experimental Rule practised by the best Etcher in England, namely Mr. W. Hollar.

SECT. X. The Proportion of the Body of Man.

OR your further information, and to direct your judgement in Drawing of whole Bodies, observe these following Proportions.

A Man standing, from the top of the Head to the bottom of the Feet, is eight times the length of the

Head.

The Arme hanging straight down, it reacheth within a span of the Knee.

A Hand must be the length of the Face, the Hand spread abroad must cover the Face, and no more.

Note, that in Drawing a Figure standing, you must

must first draw that Leg which the Body stands firmest upon; otherwise your Figure will yield one way or other, as it were falling.

A Mans Armes extended is the just length of the

whole Body.

The like proportion is observed for Women, and

therefore one example ferves for both.

The Proportion of a Child, according to our learned Author Lomantius, confilts of five lengths of the Head; according to the Figure express d in our Discourse, for an example to the Practitioner.

CHAP. VI.

of Shadowing, and Rules to be observed therein.

HE out-lines of any Draught or Picture give the Symmetrie or Proportion, which is enough to a good judgement: So the Figures before in this Book have only the out-lines, and those are best to practise first by: I say, the Out-lines shew the Proportion to a good judgement; but the Lines and Shadows give the lively likeness. In Shadowing therefore of any Picture you must observe these Rules following.

RULE J.

Cast your Shadows alwayes one way, that is, on which side you begin to shadow your Figure, either on the right or lest side, you must continue so doing through your whole work. As in the sigure of a Man, if you begin to shadow his lest Cheek.

Cheek, you must shadow the lest side of his Neck, the lest side of his Armes, the lest side of his Bodie, the lest side of his Legs, &c. Except the light side of the Figure be darkned by the opposition of some other body standing between the light and it. As if three Men were standing together, that Figure which stands in the middle must be darkned by the foremost, except the light come between them.

RULE II.

All Shadows must grow fainter and fainter, as they are farther removed from the opacous body from whence they issue.

RULE III.

In great Windes, where Clouds are driven to and fro several wayes; as also in Tempest at Sea, where Wave opposeth Wave; here contrary shadows must concur, as striving for superiority: here in such cases you must be sure to supply the greatest first, and from them, according to your judgement, supply the lesser; practice and imitation of good Copies will be your best director.

RULE IV.

All Circular bodies must have a Circular shadow, as they have a Circular form, and as the object of light which causeth shadow is Circular.

CHAP. VII.

of Drapery, and Rules to be observed therein.

S in Naked figures you draw the Outlines first, the like you must do in Drapery, leaving room within for your greater and lesser folds; then draw first your greater folds, and then break your greater folds into lesser contained within them: the closer the Garment sits to the bodie, the smaller and narrower must the folds one. Shadow your folds according to the directions of the last Chapter; the innermost harder, and the outer more softer. As in Shadowing, so in Drapery, good copies of Prints instruct best; yet take these general Rules following.

RULEI.

Continue your great folds throughout your Garnent, and break off your shorter at pleasure.

RULE II.

The finer your *Drapery* is, the fuller and sharper nust your folds be, and the shadows the stronger, but yet sweet.

RULE III.

That part of any Garment that fits close to the sody, as the Doublet of a Man, the Breasts of a Wonan, and the like, you must not fold at all; but ather with your sweet shadow represent the part of the bodie that lies under the Garment, as a Wonans Breast, with a sweet round shadow, &c.

D CHAP.

CHAP. VIII.

of Landskip, and Rules to be observed therein.

Andskip is that which expresseth in Picture whatsoever may be beheld upon the Earth, within the species of Sight; which is the termination of a fair Horizon, representing Towns, Villages, Castles, Promontaries, Mountains, Rocks, Vallies, Ruines, Rivers, and whatsoever este the eye is capable of beholding within the species of the Sight. To express which, and to make all things appear in Draught or Picture according to true proportion and distance, there are several Rules to be observed, of which take these few following.

RULE I.

In every Landskip shew a fair Horizon, the Sky either clear or overcast with Clouds, expressing the rising or setting of the Sun to issue (asit were) from or over some Hill, or Mountain, or Rock; the Moon or Stars are never to be expressed in a fair Landskip, but in a Night-piece, I have often feen it, as in a piece of our Sarinus being taken by night, and in others. As an Astronomer with his Quadrant taking the height of the Moon, and another with his Cross staff taking the distance of certain Stars, their Man standing at a distance with his Dark-lanthorn, to see their Degrees when they had made their observation; these things, as taking of the Partridge with the Loo-bell, and the like, become Night-pieces very well. RULE

RULE II.

If you express the Light of the Sun in any Landskip, be fure that through your whole work you cast the light of your Trees, Buildings, Rocks, Ruines, and all things else expressed within the verge thereof thitherwards.

RULE III.

Be fure in Landskip that you lessen your bodies proportionably according to their distances, so that the farther the Landskip goeth from your eye, the fainter you must express any thing seen at distance, till at last the Sky and the Earth seem to meet, as the Colours in a Rainbow do.

There are many excellent pieces of Landskip to be procured very easily; as also of Landskip and Perspective intermixed, which pieces to me were ever the most delightfull of any other; and such I would advise you to practise by; they, if they be good, being the only helps to teach you proportion of Bodies in any position, either near or a-far off.

I might here speak further of Damasking, Antique, Frisco, Grotesco, Tracery, and the like; but these are things that when you are expert in good

I might here speak further of Damasking, Antique, Frisco, Grotesco, Tracery, and the like; but these are things that when you are expert in good Draught, as (by diligent practice and following the Rules and Examples before delivered,) I hope (by this time) you are, these things will come of themselves, and indeed, no sooner heard of or seen, but done. And thus I conclude this first book of Drawing with the Pen and Pastils, and shall now proceed to the second Book, which teacheth the Art of Etching and Graving

OF

OF

ETCHING and GRAVING.

The Second Book.

CHAP. I.

Of Etching with Aqua fortis.

Here are several wayes for Etching, and several Grounds of divers colours, used by several men, I shall deliver here onely one, and that so familiar, easie, and true, that I believe there is not a better Ground, nor a more accurate way performing the work intended, than that which shall be here taught; it being the only way, so many years practised, and to this day continued by that unparallel'd designer and incomparable Etcher in Agna fortis, Mr. Hollar; the manner of performing the whole work is as followeth.

SECT. I. To make Mr. Hollar's Ground, and how to Etch in Copper, and what Instruments ought to be used in the practice thereof.

TAke three parts of Virgins wax, one part of Asphaltum, one part of the best Mastick; if you

you will, you may take away a third part of the Afphaltum, and put instead thereof as much refined Rosin that is transparent and clear, for this will be better to see through the Ground, to stop up what you have occasion for. Beat your Asphaltum and Rosin together to powder, and put your wax into a clean Pipkin that hath never been used before, and fet it over a gentle fire, and let it boyl; then pour in the Asphaltum and Rosin into it, and mingle them all together. Then take a Porenger or such like thing full of clean water, and pour that boyling stuff when all is melted into the water, but pour not out the dregs, then when it is cold work it up into a coal or ball; and when you are to use it, then take a clean rag and double it, that no dregs or knots may come through the rag, and tie it fast with a piece of thread; so is your Ground prepared.

SECT. II. How to prepare your Copper.

Your Copper must be well planisht, that it may lie level; and before you lay on the Ground, take your Plate, and with a Charcoal well burnt coal it over with very clean water; then wash it off with clean water never used before, and set it sloping to run off; when it is dry, then scrape some Chalk fine all over it, and with a very clean fine rag rub it over; but let not your fingers touch upon the Plate, till you have put the Ground on, which you must lay on thus.

SECT. III. How to lay the Ground upon the Plate.

Ut into some fire-pan some small-coal or coalfire, for charcoal is too hot, then lay down the Copper over that, fo as the fire may have air; then take your Ground, it being in a cloth as aforefaid, and rub up and down the Copper, so asic sufficiently may cover the Plate, not too thin nor too thick; then take a Ducks feather of the wing and. smooth it as well as possibly you can all one way, and then cross and cross until it lie well to your eye; but take heed that your Copper be not too hot, for if it lie until the Ground smoak all the moisture of the Ground is burnt away, and that will spoil your piece in Etching, because the Ground will break or fly up; this done, let your Plate be cold, then grind some White-lead with Gumwater, and note, that as much Gum as the bigness of a Cherrry-stone will serve for a piece of Whitelead as big as a Nutmeg; but you must understand, that you must put so much water that the white may be of convenient thickness to spread on the Copper.

Then you must have a large Pencil or small Brush, as the Paintersuse, of the bigness of a Walnut, or more especially for a large Plate, and with that strike over the Plate cross twice or thrice, till you see it

fmooth.

Then you must have another Brush larger then the first, but very smooth, made of several Squirels tails, with that you may smooth gently the White, which

which you could not do with the other Brush, and then let it lie till it be dry.

SECT. IV. How to transfer your design upon the Copper.

Hen take your design or Copie after which you are to work, scrape on the back-fide thereof fome red Chalk all over, then go over thatby scraping some fost small-coal till it mingle with the chalk. then take a Hand-brush or great Pencil that is very stiff, and rub it up and down till it be fine and even. and fo lay down the defign on your Plate, and with a blunt Needle or Point draw over the out-stroke: you must have several Needles, some bigger, and fome finer, put them into a pencil-stick of the length of a writing-pen, and on the other end keep one Pencil to wipe away the Ground that your Needle fetches off when you work. To blunt your Needle point you must do thus, blunt it on a Table, or on the back-fide of a Copper plate, still holding the point downward, and carry your hand circular that you keep the point round; the finest Needles you must sharpen upon a fine Wher-stone, and still turning it betwixt your fingers as you whet it, as the Turners do their work, to keep it round, then after smooth it upon a Table-book leaf; and as you work you need not fcratch hard into the Copper, only fo as you may fee the Needle go through the Ground to the Copper, and alwayes when you leave your work wrap your Plate up in paper, lest vour

your Plate get scratches, which it will be apt to do, and the Ground will be apt to be corrupted lying open in the air, and the moissure drawn out of the Ground, and the same inconveniency will accrue by letting your Ground lie too long upon your Plate before you finish, three or sour moneths time will eat out the moissure of the Ground, and in Etching it will seem broad and deep, and when you think it eaten enough, you will find it to be eaten little or nothing: in Winter time wrap your Plate in a Blanket as well as Paper when you leave your work; if the Copper get frost, it will cause the Ground to rise up from the Copper in the eating with the Aqua fortis.

SECT. V. How to Wall about your Plate about with Wax, to lay on your Aqua fortis, and to finish your work.

Our Plate being prepared, your Ground laid on, and your Design transferred upon your Plate; when you are going to Etch, then take green Wax and melt it in some little pipkin, and with a Pencil cover round about the edges of the Copper; sirst, with the hot Wax slick it round about the Plate as a wall to keep in the Aqua fortis, that it may slick fast, let the same be of Green wax also, which draw out into long pieces of the thickness of strong paste-board, and as broad as a knise, then sasten it about the edges with a little slick being broad on the end, and sharp edged, and with it thrust

thrust down the Wax to make it slick, then if your work be fine, take of Aqua fortis the third part of an ounce, and break it with your other water that hath been used before twice or thrice, and take at least two parts of the old to one part of the new. In case you have no Aqua fortis formerly used, take good Wine-vinegar to mix with your Aqua fortis, but if your work be course, you may use your three pence the ounce Water only; and for such things as you will have fine and sweet, you must first pour out your Aqua fortis into some earthen dish, then wash off the Aqua fortis with clean water, and let it be dry, then melt some Candle-grease with a little Ground, and with a Pencil cover those things you will have to lie faint, then pour on your Aqua fortis again as oft as you see need; then melt your Ground the same way you laid it on, and with a linnen rag wipe clean your Plate, and so is your work finished.

CHAP. II.

Of GRAVING.

SECT. I. Of necessary Instruments belonging to Graving.

HE that will undertake the Art of Graving, must know how to Draw, and hatch with a Pen; which, I doubt not, but he that hath observed the former Rules can do.

I. Of your Oyl-stone.

The first thing you are to do, is to provide a good Oyl-stone, which you may have of those that sell several Tooles for the Goldsmiths; which, let be very smooth, not too hard nor too soft, and be sure it be without pin-holes. Now to fit your self aright, you are to resolve what kind of Graving you will sollow; if you sollow Picture or Letter-work, that is a work more curious than the Goldsmiths: Armes and Letters are upon Silver or Pewter, and accordingly your Gravers must be shap'd.

2. Of Gravers.

Goldsmiths Gravers are crooked, that they may more readily come at hollow work, but for Copperpictures or Letters the best Gravers are the straight, which chuse thus; Take a File and touch the edge of the Graver therewith, if the File cut it, it is too soft and will never do you good; but if the File will not touch it by reason of the hardness, it will serve your occasion, although such a Graver be apt at first to break short off, after a little use by whetting it will come to a good temper and condition, as by experience I have found; though some ignorant of what they have writ, would puzzle you about altering the temper.

SECT. II. The feveral wayes of holding the Graver.

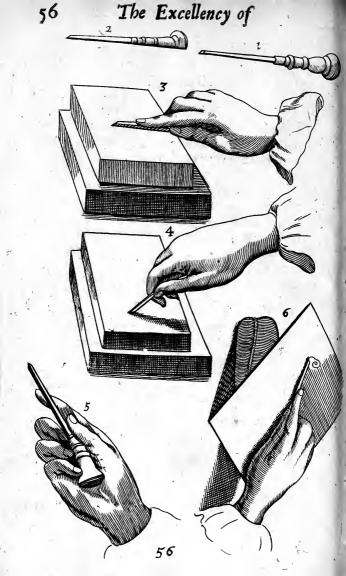
Et the end of the hast of the Graver rest against the ball of the thumb, and let the fore-finger guide the Graver, which is done by resting steadily

upon the point of your Graver.

You must also provide a Bag of Sand to lay your Plate upon, on which you may turn your Plate at ease every way: And note, that with your lest hand you must turn your Plate as the stroaks you grave do turn, which is not easily attained without

diligent care.

You Copper plates ready polished do often come from Holland, or else you may have them prepared by several in England; you may be directed how to have these Plates by most Printers of Plates in London, and therefore I forbear to trouble you or my self about directing you how to prepare Plates for your use.



SECT. III. The forms of Graving-tools, as also the manner of whetting your Graver.

The upper part of this figure will shew two sorts of Graving-tools, the one formed square, the other lozeng: the square Graver makes a broad and shallow stroke, or hatch; and the lozeng makes a deep and narrower stroke. The use of the square Graver is to make the largest strokes, and the use of the other is to make the strokes more delicate and lively. But I preferre a Graver made of an indifferent size betwixt both these two, which will make your strokes, or hatches, show with more life and vigour, and yet with sufficient sorce, according as you shall manage it in your working: The forms of which will appear in the 1. and 2. figures.

The 3. figure shews you how to whet the two sides of your Graver, which is to be done in this manner following; you must have a very good Oylftone smooth and flat, and having powred a little Sallad-oyl thereupon, take the Graver, and laying one side of it (that which you intend shall cut the Copper) flat upon the stone, whet that side very flat and even; and to that purpose have an especial care to carry your hand stedsast, and with an equal strength, placing your fore-singer very firm upon the opposite side of your Graver, to the end that you may guide it with the more exactness: then turn the very next side of your Graver, and whet that in the like manner, as you did the other; so

that there may be a very sharp edge for the space of an inch or better; then turning uppermost that edge which you have so whetted, and setting the end of your Graver obliquely upon the stone, carry your hand exactly even, to the end that it may be whetted very flat and sloping, in the sorm of a lozeng, making to the edge a sharp point, as the sigure 4. shews you.

It is very necessary that you take great care in the exact whetting of your Graver; for it is impossible that you should ever work with that neatness and euriosity as you desire, if your Graver be not very

good, and rightly whetted.

I cannot demonstrate it so plain and fully by figures, and discourse, as I would: if you have acquaintance with an Artistin this way, you may easily understand in a short time.

SECT. IV. The manner how to hold and handle your Graver.

He uppermost part of this figure describes to you the form of two Gravers, with their handles, fitted for the whetting. They that use this Art, do before they make use of them, commonly cut away that part of the knob or bowl that is at the end of their handles, which is upon the same line with the edge of their Graver, to the end it may not hinder them in their graving, as the figure 2. shews you.

Fot if you work upon a large Plate you will find that that part of your handle (if it be not cut away) will fo rest upon the copper, that it will hinder the smooth and even carriage of your hand in making your strokes or hatches; also it will cause your Graver to run into the copper in such sort, that you shall not be able to manage it at your pleasure.

The 5. figure describes to you the way of holding your Graver; which is thus, place the knob or ball of the handle of your Graver in the hollow of your hand, and having extended your fore-finges towards the point of your Graver, laying it opposite to the edge that should cut the copper, place your other fingers on the side of your handle, and your thumb on the other side of the Graver, in such fort that you may guide your Graver flat and parallel with the plate; as you may see in the sigure.

And be very carefull that your fingers do not interpose between the plate and the Graver, for that will hinder you in carrying your Graver level with the plate, so that you cannot make your strokes with that freedom and neatness, which otherwise you may. This I think sit to give you notice of, because the skill of holding your Graver is that

which you must first perfectly learn.

SECT. V. The manner of holding your hand in Graving.

Aving described the way of holding your Graver, the next thing is to shew you how to guide your Graver upon the plate in making of your strokes,

strokes, which are straight or crooked; that you may work with the more ease and convenience, you must have a strong round leather Cushion fill'd with sand or fine dust; let it be made about half a foot broad in the diameter, and three or four inches deep; lay this upon a table which standeth fast and firm: then lay your plate upon the cushion, as is described in the 6. figure.

When you are to make any straight strokes, hold your Graver as is directed in the former Section; and if you will have your strokes deeper or broader in one place than in another, in that place where you would have them deepest you must press your hand hardest; but especially in making of a straight stroke, be carefull to hold your plate sirm and sted-

fast upon the cushion.

And if you make any crooked or winding strokes, then hold your hand and Graver stedfast; and as you work turn your plate against your Graver; for otherwise it is impossible for you to make any crooked or winding stroke with that neatness and command, which by this means you may, if you do not move your plate, and keep your arm and elbow fixed or rested upon the table.

If as you are working your Graver happen to break often on the point, it is a fign it is tempered too hard; to help this take a red hot charcoal, and lay the end of your Graver upon it, and when you perceive your Graver to wax yellowish, dip it in the water: If your Graver become blunt without breaking, it is a fign it is nothing worth.

After you have graved part of your work, it will

be necessary to scrape it with the sharp edge of a Burnisher, carrying it along even with the plate, to take off the roughness of the strokes; but in so doing take heed of making any scratches in your work.

To the end you may better fee that which is graven, they commonly roll up close a piece of a black Felt or Castor, liquored over with a little Oyl, and therewith rub the places graven: And if you perceive any scratches in your plate, rub them out with your Burnisher: and if you have graved any of your strokes too deep, you make them appear fainter with rubbing them with your Burnisher.

SECT. VI. How to take off any Picture, or Mapletters, &c. upon your Copper.

Take your Plate and heat it over the fire, and having a piece of yellow Bees wax, put into, and tyed up in a fine Holland rag, try if your Plate be hot enough to melt your Wax, if it be, lightly wipe over your plate with that wax, until you fee it be covered over with wax, but let it be but thin; if it be not even, after it is cold you may heat it again, and with a feather lay it even, which at first you will find a little difficult.

Now if what you are to imitate be an exact copy, you must note it must stand the contrary way in the plate, and therefore your best way will be to track it over in every limb with a good Black-lead Pencil, especially if it be an old picture, which having done, take an old Ivory hast of a knife, and placing your

picture exactly on your copper, the face downward, take your haft and lightly rub over your print, and you shall perceive the perfect proportion remain upon the wax that is upon the plate; then take a long Graver, or another piece of steel grownd sharp, and with the point thereof go over every particular limb in the out-stroke, and there will be no difficulty to mark out all the shadows as you go to engrave your work, having the proportion before you.

And it will be more ready, if also you note your shadows how far they be dark, and how far light with your black-lead, before you rub it off; but a learner may be puzzeled at first with too many observations.

observations.

At first you will find some difficulty for carrying your hand, and for the depth of your stroke you are to engrave; but take this experiment in your first beginning; learn to carry your hand with such a slight, that you may end your stroke with as light a stroke as you began it, and though you may have occasion to have one part deeper or blacker than another, do that by degrees; and that you may the more distinctly do it, observe your strokes that they be not too close nor too wide: and for your more exact observation, practice by those prints that are more loofly shadowed at first, lest by imitating those dark and more shadowed, you be at a loss where to begin or where to end; which to know, is only got by practice: Thus for Pictures.

Now for Letters, if copies, every word and letter must be either writ with ungumm'd Ink, or else gone over with Black-lead, and rubb'd on the

plate when it is waxed, as before; but if a Map or other Mathematical Instrument, every circle, square, or perpendicular must be drawn over as before, or else you cannot exactly imitate the same; but if you be to cut any Face, Armes, Instruments, or Map not to be printed, then if you black over the back-side, as you are directed for your design in Etching, that will serve your turn; onely for Etching you use a mixt ground, and for to Engrave you onely use wax.

And thus, in a plain style, I have given you an

account of the whole mysterie of Engraving.

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The Excellency of

64



OF

LIMNING

IN

WATER-COLOURS.

The Third Book.

HE proctice of Limning is a quality commendable in any person, and a practice meet for the Noblest personage of what quality soever; I shall say no more in the praise of it, it may speak for it self, but come immediately to shew you the manner how to person it; therein solvowing the Rules now practised by the most eminent Masters in that saculty: and first, shall begin in this as in the other parts of this Book, what things are to be in a readiness prepared for the practice of it.

CHAP. I.

Of necessaries belonging to Limning.

T O the Limning in Water-colours there belongs several thing, as Gumms of several forts, and Waters made of them, a Grinding-stone and and Muller, several Colours, Liquid Gold and Silver, several Sizes to lay Gold, Parchment of the finest, as of Abortive Skns, Pencils of divers sorts; of the making and preparing all these in their order, and then to their use.

SECT. I. Of Gumms and Gum-Waters used in Limning.

The principal Gum is Gum-Arabick, get the best that may be, which you shall know by the whiteness and clearness; if it be yellowish, of an

Amber colour, it is naught.

To make Gum-water hereof, do thus, take a clean earthen Vessel, Pan, Dish, or the like, put therein the fairest Spring-water you can procure, then take a quantity of Gum-Arabick, and tie it in a fine clean Linnen cloth, as in a bag, and hang this in the middle of the water, and there let it rest till the Gum be dissolved; if you find your water be not stiff enough of the Gum, put more Gum into your cloth, and let that dissolve as the other did; if it be too stiff, add more Water: of this Gum-water it is absolutely necessary you have alwayes by you two sorts, one strong, the other weak; and of these two, you may make a third at pleasure; preserve these in clean Glasses for your use.

Of GUM-LAKE.

Gum-Lake is a compounded Gum made of many ingredients, as of whites of Eggs beaten and strained,

of Honey, Gum of Ivy, strong wort, these ingredients mingled together will at last runlike an Oyl, which at last will congeal and be hard. Trouble not your self to make it, but buy it readie made; chuse it as you do the Gum-Arabick, by the clearness, and then you need not fear it.

To make Water thereof, use it in all respects as you did your Gum-Arabick, by tying it in a cloth and dissolving it in sair water; of this water also

have of two forts, a weaker and a stronger.

Of GUM-ARMONIACK.

Of this Gum you may make a Water, that whatfoever you write therewith you may lay in Gold.

The manner of making the Water is thus; take your Gum and grind it with the juice of Garlick as tipe as may be, thereunto add a few drops of weak water of Gum-Arabick making it of such a thickness as you may conveniently write with it with a pen.

With this liquor write what you will, and let it drie, but not too long, for if you do, the Gold will not flick, and if you lay on your Gold too foon, it will drown it. When you would lay your Gold upon it being drie, do thus, get a Gold-cushion, which you may thus make; take a piece of Calves-leather rough, and get a board about sixinches long, and five inches broad, upon this board lay some woollen cloth four or five times double, and over all your Leather with the rough side outwards, nailing the edges of the leather to the sides of the board; so is your Cushion made.

Upon this Cushion lay your Gold-leaf, and with

a knife that hath a very sharp edge, cut your Gold upon your Cushion into pieces, so that it may quite cover what you have written, then breathe upon your writing, and with a piece of white Cotton-wool (breathing upon that also) lay it upon your Gold and it will take it off from your Cushion, which pressdown hard upon your Writing, and it will there stick; then with other Cotton-wooldry, wipe away the loose Gold, and your Writing only will remain, which when it is through drie you may burnish with a Tooth, and it will shew fair.

of LIQUID GOLD or SILVER.

You may with Liquid Gold or Silver Draw or Write any thing with the Pen or Pencil, as with any other liquid colour; I could fhew you how to make it, but to make a small quantitie it is not worth the while, neither will it quit the cost; therefore I would advise you to buy it readie prepared, which you may do where you buy your Colours, or of some Gold-beaters, who make it of their cuttings of the ragged edges of their Gold.

When you use it do only thus, put into your Shell a drop or two of sair water, and with a clean Pencil temper up so much Gold as will serve your occasion at that time, with which Write or Draw what you will; then about two or three hours after, the longer the better, burnish it by rubbing hard uponit with a Dogs-tooth, and it will be pure Gold; this is the best and easiest way of laying Gold that

I know of.

SECT. II. Of your Grinding-stone and Muller.

Eta tone of Porphery or Serpentine, or rather a Pebble, (if you light of one large enough) is best of any other. But in short, get as good an one as you can, which your Marblers in London may help you to; keep this and your Muller alwayes very clean and free from dust.

SECT. III. Of Colours.

Here are simply six, viz. White, Black, Red, Green, Yellow, and Blem; to which we may add Browns, but they are compounded.

Of either of these there are several sorts, the names whereof, and the manner of ordering of them shall be shewed in the ensuing Chapter.

CHAP. II.

Of Colours used in Limning: their names, and how to order them.

SECT. I. Of the Names of Colours, and how every Colour is to be prepared; whether Grownd, Wash'd, or Steep'd.

BLACKS. WHITES. REDS.

Cherry-stones burnt. Ceruse. Red-Lead.

Ivory burnt. White-Lead. Lake.

Lamp-black.

GREENS.

Pi

GREENS. BLEWS. YELLOWS.

Bise. Indico. English Oker.

Pink. Ultramarine. Masticote.

Sap-green. Bise. BROWNS.

Cedar-green. Smalt. Umber.

Spanish Brown. Colen's Earth.

These are the principal Colours used in Limning, I have omitted many others, but they are such that are not sitting for this Work, which I shall speak of when I come to teach how to Was Maps and printed Pictures, for which use those Colours I have omitted are only usefull.

Of the Colours here mentioned, usefull in Limning, they are to be used three several wayes, viz.

either Washed, Grownd, or Steeped.

The Colours to be only Washed are these:

Bise. Cedar. Red-Lead. Smalt. Ultramarine. Masticote.

To be Steeped, only Sap-green.

The Colours to be Washed and Grownd, are these:

Cernse. Pink. Spanish Brown.

White-Lead. Indico. Ivory,
Luke. Umber. & black.

English Oker. Colens Farth. Cherry-stone

SECT. II. Of those Colours that are to be Ground, and how to Grind them.

Have in the last Section told you what Colours are to be Grownd, which Washed, and which to be Steeped; it resteth now, to shew you how to Grind those Colours that are to be grownd; I shall not run over every Colour particularly, but shew you how to grind one Colour, which take as an example for all the rest.

For our example in grinding of Colours, let us take the original of Colours, viz. Ceruse, or White-lead, there is little difference between them, only

one is refined; the other not.

To grind it do thus; Take a quantitie thereof, or of any other Colour to be grownd, being cleanfed from all manner of dirt or filth, which you must first scrape off; then lay the Colour upon your Stone, and with your Muller bruise it a little, then put thereto fair spring-water, and between your Muller and Stone grind the Colour well together with the water till the Colour be very fine, which when you find to be enough, have in a readiness a great Chalk-stone, in which make certain troughs or furrows, into which pour your Colour thus grownd, and there let it rest till it be thorough drie, then take it out and referve it in papers, and those papers in boxes, for your use. This order you are to observe in all Colours that are to be Grownd.

SECT. III. Of these Colours that are to be Washed, and how to Wash them.

As in the Grinding of Colours I gave you an instance but in one for all the rest, the like I shall do for those Colours which are to be Washed; I will make my instance in Red-lead, which you are to Wash in this manner.

Put a quantity thereof into a clean earthen dish, and pour thereto fair water, stirring the colour and water together with your hand or otherwise, then let it stand a while, and you shall see a fisthy greasie scum arise and lie above the water, with other fisth; pour this water quite away, and put other clean water to the Colour, and stir it about again, pouring away the water (if foul) the second or third time; then add more water, and stir the Colour about again till the water be thick and troubled; but yet free from fisth, then gently pour this troubled water into a second earthen dish, leaving in the sirst dish all the dregs.

Into the second bason put more fair water, and with your hand stir about the Colour as before; do thus two or three times, and take (if your Colour be very foul) a third earthen dish, and add more water, and keep stirring, till at last the water become clear, and the Colour remain sine at the bottom of the dish; pour away your water gently, and you will find some Colour remaining and slicking to the edges of the dish, which when it is dry, you may with

72 The Excellency of

(with a feather) strike away like flower, which referve as the choicest and purest of all; if in a pound of this Red-lead you have an ounce of good indeed, prize it, for it is troublesome to procure. The other, which is not altogether so pure, may be serviceable for some uses, though not for all. What hath been said of this Colour is to be understood of all other that are to be washed; therefore for Washing of Colours let this suffice.

SECT. IV. Of Colours to be Steeped.

I Said (among the Colours before mentioned) there was only Sap-green to be Steeped, though in Colours to wash Maps and Prints there are many, but of these, when we come to shew how to Wash Maps, &c. To Steep your Sap-green do thus, take a quantity thereof and put it into a Shell, and fill the shell with fair water, to which adde some fine powder of Allum to raise the colour; let it thus steep twenty sour hours, and you will have a very good Green.

SECT. V. Of those Colours that are Washed and Grownd, how to temper them in your shells when you are to use them.

You having all Colours both Ground and Walhed by you in a readiness, when you begin any

any piece you must temper them as followeth,

for which take one example for all.

Take any Colour, a small quantitie thereof, and put it into a clean shell, then add thereunto a drop or two of Gum-water, and with your singer (being clean) work it about the sides of the shell, and there let it slick till it be dry; when the colour is dry in the shell, draw your singer over it; if any Colour come off, you must add itronger Gum-water to it. But, if when your Colour is dry in the shell, it glitter or shine, it is a sign there is too much Gum in it; therefore remedy that by tempering your Colour up again with fair water only, without any Gum.

There are some Colours, as Lake, Umber, and other hard Colours, which when they are dry in the shell will crack, and look like parched ground in a drie Summer; to such colours as these, when you temper them for use, add to them a small quantity of white sugar-candy in sine powder, which temper with your Colour and sair water with your singer in the shell till the Candy be dissolved; and this will keep them from peeling when you have

laid them on your Work.

Note here, that these Colours following, viz. Umber, punsh-Brown, Colen-Earth, Cherry-stone and Ivory-black are to be burnt before they be

Wash'd or Grownd.

To burn any of them do thus, put the Colour into a Crucible, such as Gold-smiths melt their silver in; if you will, cover the mouth thereof with clay, and set it in a hot fire, there let it rest till it be red hot; when the Colour is cold you may Grind or Wash it according to former Directions. SECT.

SECT. VI. Of Pencils, and how to choose them.

You are in the next place to furnish your self with Pencils of all sorts; which how to choose do thus, take a Pencil and put the hairy end between your lips, wetting it a little by drawing it through your lips, being moist, two or three times; so that the Pencil being large will come to a point as small as a hair, which if it do, it is good; but if it spread, or any extravagant hairs slick out of the sides, they are naught; you may try them by wetting in your mouth, and attempt to draw a line on the back of your hand.

SECT. VII. Of Compounded Colours.

of the the fix simple Colours before named, together with the Browns, many others may be compounded for Faces of all Complexions, Garments, Landskips, Building; for Birds, Fishes, Beafts, and what not? I will shew how to compound some, and by those you may by practice find out and invent infinite more, I shall instance in these following. As,

A Violet.
A Lead-colour.
Flame-colour.
Scarlet.

Light-green
Purple.
A Bay-colour.
A Murrey.

To make a Violet-colour.

Indieo, White, and Lake make a good Violetcolour; you may make it lighter or darker at pleafure, as you may all other compounded Colours.

Lead-colour.

Indico and White make a Lead-colour.

Colour for Flaming fire.

Red-lead and Masticote, heightned with white.

Scarlet-colour.

Red-lead, Lake and Vermilion, very little or no Vermilion, for it is not good in Limning.

Light-green.

Pink and Smalt, with white to make it lighter, if you require it.

A Purple-colour.

Indico, Spanish-brown, and white.

A Bay-colour.

Spanish-brown and White. .

A Murrey-colour.

Lake and White make a Murrey-colour.

Of these infinite others may be made, but I leave them to your own ingenuity to find out, which with little practice you will soon do. The next thing you shall be informed in, is how to prepare your Table for Limning, and fit all things for your work, which shall be declared in the next Chapter.

CHAP.

CHAP. III.

How to prepare a Table for a Picture in small for Limning, to make choice of your Light, the manner of Sitting in respect of Position and Distance, and what necessary Instruments are to lie by you when you are at work.

E now draw pretty near to our intended purpose, viz. Miniture or Limning to the life in Water-Colours: but

SECT. I. How to prepare a Table for a Picture in small.

ET pure fine Paste-board, such as the ordinary playing Cards are made of, you may have of what size and thickness you please, and very finely slick'd and glazed, at the Cardmakers: Take a piece of this Paste-board of the size you intend your Picture, then take a piece of Parchment of the finest and whitest you can get, which are the skins of abortives or costlings, cut a piece of this skin of equal bigness with your Paste-board, and with thin white Starch new made paste the Parchment to the Paste-board, with the out-side of the skin outermost; lay on your Starch very thin and even; then your Grinding-stone being made very clean, lay the Card thereupon with the

the Parchment-side downwards, and as hard as you can, rub the other side of the Paste-board with a Boars tooth set in a stick for that purpose, when it is through drie it is fit to work upon.

SECT. II. Of your Light.

Oncerning your Light, let it be fair and large, free from being shadowed with trees or houses, but a clear sky-light, let it be a direct light from above, and not a traverse-light; let it be a Northerly and not a Southerly light, for the Sun shining either upon you, your work, or the partie sitting, will be very prejudicial, as your room must be light, so let it be also close and clean. And observe, that you begin and end your work by the same light.

SECT. III. Of the manner of Sitting.

Let your Desk on which you work be so situate, that when you sit before it your lest arme may be towards your light, and your right arme from it, that the light may strike in sideling upon your Work. Thus for your own sitting.

Now for the manner of the parties sitting that is to be Drawn, it may be in what posture he or she shall design; but let the posture be what it will, let it not be above two yards off you at the most, and level with you; but if the partie be tall, then above.

Mark

Mark well when the party that fits moveth, though never so little, for the least motion of the body or face, if not recalled, may in short time

cause you to run into many errours.

The Face of a party being finished, let him stand and not sit to have his posture drawn, and that at a farther distance than two yards, viz. sour or sive vards.

SECT. IV. Of such necessaries as are to lie by you while you are at work.

i. You must have two small Sawcers or other China-dishes, in either of which there must be pure clean Water; the one of them is to wash your Pencils in being soul, the other to temper your Colours with when there is occasion.

2. A large, but clean, fine and dry Pencil, to cleanse your work from any kind of dust that may by accident fall upon it: such Pencils they call

Fitch-Pencils.

3. A sharp Pen-knife to take off hairs that may come from your Pencil, either among your Colours or upon your Work, or to take out spots that may

come to fall upon your Card.

4. A Paper, having a hole cut therein, to lay upon your Card to cover it from dust, and to rest your hand upon, to keep the soil and sweat of your hand from sullying your Parchment, and also to try your Pencils on before you apply them to your Work. Work. Let your Sawcers of Water, your Penknife and Pencils lie all on your right hand.

5. Have a pretty quantitie of Carnation (as some call it,) or Flesh-colour, somewhat lighter than the Complexion of the party you are to draw, tempered up in a shell by it self with a weak Gumwater. If it be a Fair complexion, White-lead and Red-lead mixed. If a Swarthie or Brown complexion, to your White and Red-lead add a quantitie of Massicote, or English-Oker, or both if occasion be. But whatever the Complexion be, be sure you temper your Flesh-colour lighter than the partie; for by often working upon it you may bring it to its true colour, it being first too light; but if it be first too sad, there then is no remedy.

6. Having prepared your Flesh-colour, take a arge Shell of Mother of Pearl, or a Horse-Mussel-Shell, which any Fisherman will help you to, and therein (as Painters in Oyl dispose their Colours apon their Pallat for their working of a Face, so must you) place your several Shadows in this shell in little places one distinct from another.

Note, that in all your Shadows you must use some White, wherefore 1. lay a good quantitie of White by it self, besides what the Shadows are irst tempered with. 2. For Red for the Cheeks and Lips, temper Lake and Red-lead together, some see Vermilion, but I like it not. 3. For your Blew shadows, as under the Eyes, and in Veins, &c. Indico and White, or Ultamarine and White. 4. For your Gray, faintish Shadows, take White English-Oker and Indico, or sometimes Massicote. 5. or

Deep shadows, White, English Oker, and Umber. 6. For Dark-shadows in mens Faces, Lake and Pink, which make an excellent sleshy shadow. Many other Shadows you may temper up, but these are the chief; your own judgement, when you look upon the partie to be Drawn, will best direct you, and inform your fancie better than a thousand Words.

Thus are you absolutely prepared of all necessaries, it is now fit time to go to work; and first we

will begin with a Face.

CHAP. IV.

of the Miniture or Limning of a Face in Water-Colours.

Aving all things in a readiness, according to the directions before delivered, upon that part of your Card where you intend the Face of your picture to be, lay that part of the Card over with your Colour that you have before prepared, answerable to the Complexion of the partie; it being well tempered, pretty thin, with a rencil bigger than ordinary, spread your Colour very even and thin, free from hairs or other spots, in your Pencil, over the place where you are to make the lace of your picture. The Ground being laid, you may begin the Draught, the partie being ready to sit. Now to the finishing of a Face there will require three Operations or Sittings at the

be the least. At the first sitting you do only dead Colour the Face, and this takes about two hours time. At the second sitting you are to go over the Face more curiously, observing whatsoever may conduce to the graces or deformities of the partie to to be Drawn, together with a sweet dispose and 00. couching of the Colours one within another, and this fitting will take up some four or five hours. At the third fitting you may finish the Face, this takes G. up some three hours time; in which you perfect what was before imperfect and rough, in putting the deep and dark shadows in the Face; as in the Eyes, Eye brows hair, and Ears, which things are the last of the Work, and not to be done till the Hair-curtain or the back-fide of the Picture, as also the Drapery be wholly finished. Of these three fittings or operations we shall make three Sections. as followeth: Then in the next Chapter shew how the Drapery and other ornaments are to be performed: then in the next Chapter fomething of Landskip in Miniture, or Limning, and fo conclude.

SECT. I. At the first Operation or Sitting,

Your Ground for the general Complexion being laid, the first work at your nrst sixing must be to draw the Porphile or out-lines of the Face, which you must do with Lake and White mingled; draw it very faintly, so that if you miss of

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your Proportion you may alter it with a deeper mixture of the same Colour.

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The proportion of the Face being drawn, add to the former colour some Red-lead, temper it to the colour of the Cheeks, Lips, &c. but faintly, for (as I said before) you cannot lighten a deep Colour when you would. You must now put in the Red shadows in their due places, as in the Cheeks, Lips, tip of the Chin, about the Eyes, the tip of the Ears, and about the roots of the Hair. All these Shadows must be put in, not with the flat of the Pencil, but by small touches, after the manner of Hatching; in this manner going over the Face, you will cover your ground with these and the following shadows. In this Dead-colouring you need not be overcurious, but strive to imitate Nature as near as may be, the roughness of the Colours may be mended at the second Operation.

Having put in your Red shadows in their due places, put in next your faint Blew shadows about the corners and balls of the Eyes, and your Grayish blew shadows under the Eyes and about the Temples; work these sweetly and faintly all over by degrees, heightning your shadows as the light falls; as also those harder shadows in the dark side of the Face, under the Eye-browes, Nofe, Chin, and Neck, with some stronger touches in those places than on the light fide of the Face. Bring all your Work together to an equal roundness, and give perfection to no particular part at this time, but view your object well, and see how near you hit the Life, not only in feeming likeness, but in roundness boldness of poflure, colouring, and fuch like. Having Having wrought your fainter shadows into the Red ones before laid, you may now have a touch at the Hair, disposing of it into such curls, folds, or form as shall best grace the picture, or please the partie. You must only draw the Hair with some colour suitable to the life, fill up the empty and void places with colour, and deepen it somewhat more strongly than before in the deepest shadowed places. And let this be your first operation.

SECT. II. At the second Operation or Sitting.

A T the second sitting let the partie sit in the same place and posture as he did at the first sitting, then observe and delineate with your Pencil those varieties which Nature affords you; and as you did them but rudely before, you must now with the same Colours, in the same places, by working drive and sweeten the same Colours one into another, so that no lump of Colour, or any rough edge may appear in your whole work, and this work must be performed with a Pencil somewhat sharper then that which you used before, so as your Shadows may be soft and smooth.

Having made this progress in the Face, leave it for this time, and go to the back-side of your Picture; which is sometimes a piece of Landskip, but most commonly a Curtain of blew or red Sattin. If it be of blew Sattin, temper as much Bise in a shell as will cover a Card, let it be moist, but well bound with Gum; then with a Pencil draw the Porphile or

mil

out-line of your Curtain, as also of your Picture, then with a large Pencil lay over carefully, but thin and acry, the whole ground you mean to lay with Blew; then afterwards again with a large Pencil, as before, lay over the same again with a substantial bodie of colour; in doing of which you must be expeditious, keeping your Colour alwayes moist, letting no one part thereof be dry till you have covered the whole.

If your Curtain be Crimson, then trace it out with Lake, and lay the ground with a thin colour, then where your strong lights and reflexions fall, there lay your lights with a thin and Waterish colour, and while the ground is yet wet, with a strong and dark colour tempered reasonable thick, lay the hard and strong shadows close by the other lights.

After you have thus laid the back-side of your Picture with Blew, or Red, or any other Colour, lay your Linnen with a fair White, and the Drapery

likewise flat of the colour you intend it,

Then repair to the Face again, and view your object well, and fee what shadows are too light or too deep for the Curtain behind, and the Linnen and Drapery may somewhat alter the propertie to the eye, and make the Picture appear otherwise than it did when there was only the colour of the Parchment about it; I say, view your object well, and endeavour to reduce each Shadow to its due perfection: then draw the lines of the Eye-lids, and shadow the entrance into the Ear, the deepness of the Eye-browes, and those more eminent notes and

marks in the Face, and these must be done with a

very curious and sharp Pencil.

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The Face done thus far, go over the Hair, heightning or deepning it as it appears in the life, casting over the ground some loose hairs, which will be pleasing, and make the Picture stand as it were at a distance from the Curtain.

To shadow your Linnen, use Black, White, a little Yellow, and less Blew; the Black must be deepned with Ivory-black, with which mix a little Lake and Indico. And thus far have we proceeded at the second operation.

SECT. III. At the third Operation, or Sitting.

The third and last operation of the Face will be wholly spent in giving of strong touches where you see cause; and in observations necessary for the rounding of the Face, which will better be seen how to perform now, than before the Curtain, Drapery, and Linnen were laid. In this last sitting observe very diligently and exactly whatever may conduce to similitude, which is a main thing, as Scars or Moles in the Face, &c. casts of the Eye, circumstexions or windings of the mouth. Thus much for the third operation and sinishing of the Face.

CHAP. V.

Of Drapery, and other ornaments belonging to a Picture in Miniture.

HE Face being compleatly finished, and the Apparel rudely put on, let us now come to shew how to settle them in their right geers, (as the saying is,) as also to put on such Ornaments as are usual in Pictures of this nature. And these shall be expressed in the Sections following.

SECT. I. Of Drapery in Limning.

Aving laid a good, fat, and full Ground all over the Drapery you intend to make; if Blew, then all over with Bise smoothly laid: the deepning must be Lake and Indico, the lightning White, very fine, faint, and fair, and in the extreme light places. What hath been said of this Blem Drapery, the like is to be understood of all other Colours.

It is rare to see Drapery expressed by lightning of of it with fine shell-Gold, with which it must be hatched and washed, what a lustre it gives to well-coloured Drapery, either Crimson, Green, or Blew, but much more if with the Ground it self

you mix Gold when you lay it on.

SECT.

SECT. II. Of other Ornaments in Picture.

I. I F the Body you are to draw be in Armor, lay liquid Silver all over for your ground, well dryed and burnished, shadow it with Silver, Indico, and Umber; work these shadows upon the Silver as the life directs you.

2. For Gold Armor, lay liquid Gold as you did the Silver, and shadow upon it with Lake, English

Oker, and a little Gold.

3. For Pearls, your ground must be Indico and

White; your shadows Black and Pink.

4. For Diamonds, lay a ground of liquid Silver, deepen it with Cherrystone and Ivory-black.

CHAP. VI.

of LANDSKIP.

HE bounds and limits of Landskip are inexpressible, they being as various as fancy is copious; I will give you only some general Rules for painting of Landskip, and so conclude this third Book.

In painting of any Landskip alwayes begin with the Sky, the Sun-beams, or lightest parts first; next the Yellow beams, which compose of Massicote and White; next your Blew skies, with Smalt only. At your first colouring leave no part of your ground

ground uncovered, but lay your Colours smooth and even all over. Work your Sky downwards towards your Horizon fainter and fainter, as it draws nearer and nearer to the earth, you must work your tops of Mountains and objects far remote, fo faint that they may appear as lost in the Air: Your lowest and nearest Ground must be of the colour of the earth, of a dark yellowish brown Green, the next lighter Green, and so successively as they lose in their distance they must abate in their colour. Make nothing that you see at a distance perfect; as if difcerning a Building to be fourteen or fifteen miles off, I know not Church, Castle, House, or the like; fo that in drawing of it you must express no particular fign, as Bell, Portcullis, or the like; but express it in colours as weakly and faintly as your eye judgeth of it. Ever in your Landskip place light against dark, and dark against light, which is the only way to extend the prospect far off, occasioned by oppofing light to shadow; yet so as the shadows must lose their force in proportion as they remove from the eye, and the strongest shadow must alwayes be nearest hand.



OF

PAINTING in OYL.

The Fourth Book.

Ainting in Oyl is of most esteem of any other Painting, and indeed it requiresh the greatest judgement in the performance, of any other kind of Painting. I shall (according to the weakness of my ability) deliver unto you such Rules and directions, as being well minded and practised, may in a short time make you a good prosicient therein: Presupposing you have read the three foregoing Books, especially the First and Third, and that you understand Draught of any kind, and also the nature (if not the manner of working with) Water-colours, yet at least have read the Rules there delivered concerning the use of them; you may fall to practise the Painting in Oyl; in which observe the directions sollowing.

CHAP. I.

Of the Names of your Colours, and how to Grind and order them.

Names of the Colours in Oyl.

BLACKS. WHITES. GREENS.

Lamp-black. White-Lead. Verdigrease.

Seacoal-black. Terra vert.

Ivory-black. Verditer.

Charcoal-black.

Earth of Colen.

BLEWS. REDS. YELLOWS.

BLEWS. REDS. IELLOWS.

Bife Vermilion. Pink.

Indico. Red-Lead. Masticote.

Smalt. Lake. English Oker.

Ornotto. Spruse Oker.

Spanish Brown, Burnt Spruse, Umber.

These are the chief Colours that are used in Painting in Oyl, the most part of which are to be grownd very fine upon your Stone with a Muller, with Linseed-Oyl: some must be Burnt before they be Grownd; others must be only temper'd upon the Pallat, and not grownd at all.

The Colours to be burnt are these: Ivery, Spruse, Oker, and Umber.

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The Colours that are not to be Grownd at all but only tempered with Oyl upon your Pallat, are thefe:

Lamp-black, Verditer, Vermilion, Bise, Smalt, Massicote, Orpiment, Ultamarine.

All the rest are to be Grownd upon your Stone with Linfeed-Oyl; only White-Lead, when you are to use that for Linnen, you must grind it with Ovl of Walnuts, for Linfeed-Oyl will make it turn vellow.

Those Colours that are to be Burnt, you must put them into a Crucible, such as Gold-smiths melt their Silver in, cover the mouth thereof with clay, and there let it burn red hot, when it is cold you must

grind it upon your Stone with Oyl.

CHAP. II.

Of your Easell, Straining-frame, Cloth, Pallat, Pencils, and Stay.

Might here describe the form and fashion of your Easell and Pallat, but I think I need not; for he that ever faw a Painter at work, must needs fee these two Instruments, but what they are I shall here describe.

An Easell is a frame made of wood, not much unlike a Ladder, only the fides are flat, and full of holes on either fide, to put in two pinns to fet your Work upon higher or lower at pleasure; it is broader at the bottom than at the top, and on the

back-

back-fide there is a Stay, by the help of which you may fet in the middle of any room, more upright or floping at pleasure; when you do not pleit, you may clap it together and set it behind any door, or he

hang it against any wall out of the way.

A Pallat is a thin piece of wood, and is necessary to be about twelve or fourteen inches long, and nine or ten inches broad, in form of an egge, at the narrower end whereof is a hole made also of an oval form, about an inch and a half in length; and an inch broad; this hole is to put in your thumb of your left hand, upon which you must alwayes hold, it when you are at work; out of the fide of your Pallat neer unto the thumb-hole is cut a notch, by the fide of which the Pencils which you hold in your left hand also may come through, by which means you may take any of them out, or put another in at pleasure. These Pallats ought to be very thin and light, especially at the broad end, but toward the thumb-hole somewhat thick, yet not above half a quarter of an inch; the best wood to make them of is Pear-tree or Walnut-tree.

A Straining-frame is nothing else but a frame made of wood, to which with nails you must fasten your Cloth that you are to paint upon; of these Frames you should have of several sizes, according

to the bigness of your Cloths.

By your Cloth I mean Cloth primed, I could teach you how to prime it, but it is a moiling work, and befides, it may be bought ready primed cheaper and better than you can do it your self. Few Painters (though all can do it) prime it themselves, but buy it ready done.

Pencils,

Pencils, what they are I need not tell you, but hat forts there are I will, because I shall have ocsion to call them sometimes by their names in the discourse following. There are of all bignesses, com a pin to the bigness of your finger.

There are feveral forts, thus called:

Ducks Quill fitched.

Ducks Quill pointed.

Briftle.

Swans Quill fitched.

Swans Quill pointed.

Briftle.

Hairing, or fewelling-

ine

Goose Quill sitched.
Goose Quill pointed.
Bristle Pencils; some in Quills, others in Tinn-cases bigger than Quills, and others in Sticks.

Your Stay or Mol-flick is nothing else but a slick of Brazeel or such like wood that will not easily bend, about a yard in length, at one end whereof tie a little ball of Cotton hard in a piece of Leather about the bigness of a Chesnut; this slick when you are at work you must hold also in your lest hand, and laying the end which hath the leather ball upon your cloth or frame, you may rest your right arm upon it all the while you are at work. Thus being surpished with all manner of Colours, and other necessaries here described, you may begin to practise when you please; we will begin with a Face, in which observe the directions in the following Chapters.

CHAP. III.

How to order your Colours upon your Pallat, and bow to temper Shadows for all Complexions.

Is pose your single Colours upon your Pallat in this order, laying them at a convenient distance one from another, so that they be not apt to intermix. First lay on your Vermilion, then Lake, then burnt Oker, India Red, Pink, Umber, Blacks, and Smalt: lay the White next to your thumb, because it is oftness used, for with it you lighten all your Shadows; next to your White lay a stiff sort of Lake: this done your Pallat is surnished with the single Colours belonging to a Face; then for the tempering of your Shadows to all Complexions, observe the following Directions.

1. For a Fair Complexion.

Take a little White, and twice as much Vermilion, and as much Lake, temper these well together upon your Pallat with the stat blade of your knife; lay aside by it self on your Pallat the greatest quantity of this to be used for the deepest Carnation of the Face.

Put more White to that which remains, and temper that well with your knife, and being well tempered lay some of that aside also for your lighter Carnation.

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To the remainder add yet more White, and temper it upon your Pallat till you have brought it to the lightest colour of your Face.

Your Carnations being thus tempered, and orderly laid upon your Pallat, prepare your faint Sha-

dows. For which,

Take Smalt, and mix it with a little White, which may ferve for the Eyes; lay afide the greatest quantity, and to the rest add a little Pink, this well tempered and laid by it self will serve for the faint greenish shadows in the Face.

Now prepare your deep Shadows; for which take Lake, Pink, and Black, of each a like quantity,

temper all these together.

If the parties Face you are to draw, or the Ficture you are to copie do require the Shadows to be redder than what you have tempered, then add a little more Lake; if yellower, add a little more Pink; if blewer or grayer, add a little more Black.

This done, your Pallat is prepared with Colours

for any fair Face.

2. For a more Brown or Swarthy Complexion.

Lay your fingle Colours on your Pallat as before, and in like manner temper them, only amongst your White, Lake, and Vermilion, put a little quantity of burnt Oker, to make it look somewhat Tawny.

Amongst your heightnings temper a little yellow Oker, onely so much as may just turn the

Colours.

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For your very faint and very deep Shadows, the same as before.

3. For a Tawny Complexion.

The general Colours must be the same as before, only the Shadows are different, for you are to prepare them of Umber, and burnt Oker, which shadow will fit these Complexions best; if the shadow be not Yellow enough, add more Pink to it.

4. For an absolute Black Complexion.

Your dark Shadows must be the same as before; but for your heightnings, you must take White, burnt Oker, Lake, and Black, put but a little White in at first, but work it up by degrees, till you come to the lightest of all, as you did the contrary Colours for a fair Complexion.

Here note, that the fingle Colours at first laid upon your Pallat being tempered together according to the former directions, serve for shadows

for all Complexions.

Thus much concerning the disposing and ordering of your *Pencils*, and what *Pencils* you are alwayes to have in your hand all the while you are painting of a Face.

Wha

CHAP. IV.

what Pencils are usefull for the Painting of a Face, and how to dispose them.

Very Pencil must have a stick of about nine inches long put into the Quill thereof, the farther end of which stick must be cot to

a point.

When you are to begin any Face or other picture, lay together two Ducks quill-fitch-Pencil, and two Ducks-quill-pointed Pencils, also two Goose-quill fitched and two pointed, two Briffles both alike; one Swans-quill fitched, and another pointed; then a larger Pencil than any of these, which no Quill will hold, and therefore they make cases of Tinn to put them in, you must have one of these Fitched, as also a Briffle of the same bigness.

Your Pencils being in a readiness, when you are to use them, your Pallat being upon your thumb, you must take your Pencils in your right hand, and put the ends of their sticks into your lest hand, keeping (when you work) the hairy ends at a distance, one from touching another, lest the Colours

in them intermingle.

Your Pellat of Colours being prepared, and your Pencils and Molstick also in a readiness, you are

to use them as is hereafter taught.

CHAP. V.

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How to Paint a FACE in Oyl- Colours.

Our Cloth being ready primed, and ftrained upon your Frame, take a knife, and with the edge thereof fcrape over your Cloth, lest any knots or the like should be up-

on it which may difryme your Work.

Your Cloth being ready, draw forth your Eafell, fetting your Frame & Cloth upon it at a convenient height, so that you sitting upon a stool, (level with the party you draw) may have the face of the picture equal, or somewhat higher than your own. Then set your Easell according to your light, which let be the same as I have described in *Limning*, namely, a Northerly light, free from shade of trees or houses, but let it come in on your less thand, and so cast the light towards the right hand.

All things being now in a readiness, let the party you are to draw sit before you in the Posture he intends to be painted, about two yards distant from

you.

Then with a piece of Chalk pointed, draw the proportion of the Face upon the Cloth, with the place of the Eyes, Nose, Month, Ears, Hair, and whatsoever the posture affordeth the Eye; here is no curiosity in this, only see that you keep a good decorum, if you mis a good deal, the Colours will bring all to rights; but I suppose you know already whether

whether the design will make a Face proportionable

to the parties. And fo of that no more.

Your Design being drawn in Chalk, take one of your Swans-quill-pointed-Pencils, and some of your lightest Colour, and begin with the lightest parts in the Face, as the heightning of the Forehead, the Nose, and the Cheek-bone of the lightest side: when you have done the lightest parts, do the mean parts next; that is, those parts not altogether so light as the other, as the Cheek-bone of the fore-shortning or dark side, the Chin, and over the upper Lip; and so proceed gradually till you come to the Reddest parts of all.

Then lay your faint Greenish shadows in convernient places, and where you see cause to moderate harder shadows; but you must have a care you put not Green shadows where Red are required.

Thus all your faint or light beginnings being put in, take one of your Goose-quill-pointed-Pencils, or one of your Ducks-quill-fitched, and begin at the Eyes to shadow with Lake, because you may easily overcome it is if thous denance to be wrong: I do not mean you should go all over the face with Lake, but trace out these parts of the Face therewith, as the Eyes, Nose, Mouth, Compass of the Ear, &c. This tricking or tracing out of these parts with Lake is to be done before you lay on any Colour, wiping it lightly over with a linnen rag, to prevent the overcoming of the other Colours.

Having thus put in all your Colours both light and dark, take a great Fitch-pencil, either that in the plate, or that in the flick, and sweeten the Co-

G 4 lours

lours therewith; by sweetning, is meant the going over these several Shadows thus laid with a clean soft Pencil, which with orderly handling will drive and intermix the Colours one into another, that they will appear as if they were all laid on at once, and not at several times. If this great sitch'd Pencil be too big, you may use a lesser; but note, that the bigger Pencils you use, the sweeter and better your Work will sie; and it is as easie to handle a great Pencil as a little one, if you use your self to it.

At your Second sitting (for this is enough at once) begin again with your clean Pencils of such bigness as the piece you are to work upon does require. Then the party sitting in the same position, and at the same distance as before, the light also being the same, Observe well the party, and see what defects you find in the Work at your sirst sitting, and amend them; then heighten or deepen your Shadows according as you see occasion.

This done, take a Goose-quill Bristle and put in the Hair about the Face, and rub in the greater Hair with the greater Bristle, and heighten it up with your Goose-quill Pencil.

CHAP. VI.

of Garments of several colours, and of their proper Colouring.

HE next thing I shall speak of, shall be of Drapery or Garments, and the true and proper manner of Colouring of them.

And

I. For a Red Garment.

For a light-red Garment, first dead-colour it with Vermilion, and when you would finish it, glaze it over with Lake, and heighten it with White.

For a Scarlet.

If you will have your Garment Scarlet, Vermilion it self must be the lightest, and it must be deepned with Lake or *India* Red.

For a Crimson Velvet.

Lay Vermilion, burnt Oker, or *India* Red, for the dead colour, glaze it with Lake, and touch it up with Vermilion.

A Sad Red.

Indian Red heightned with White.

Note, that all your deepnings should or ought to be deepned with Black, Pink, and Lake, tempered together.

2. For

2. For Green Garments.

The best Green for holding is Bise and Pink, heighten it with Massicote, and deepen it with Indico and Pink.

For Green Velvet.

Lay the dead colour of White with a little Lampblack, glaze it with Verdigrease, deepen it with Indico and Pink, and heighten it with Pink and White.

3. For Blew Garments.

Take Indico and White, first lay the White in its due places, and then your mean colour, namely Indico and White mixed in their due places, then deepen it with Indico only, and when it is dry glaze it with Ultamarine, which will never fade; you may glaze it with Smalt or Bise; but Smalt will turn Black, and Bise will turn Green.

But if you will have a Blew Garment without glazing, lay the ground as before, with Indico and White, heighten and deepen it with the fame

Colours.

4. For Yellow Garments.

For a Yellow Garment, Masticote, yellow Oker, and Umber; lay the dead colour of Masticote and White in the lightest places, Oker and White in the mean places, and Umber in the darkest places; when it is dry glaze it with Pink.

If you would not glaze it, use only Masticote heightned

heightned with White, and deepned in the mean shadows with Oker, and in the deep shadows with Umber.

5. For Black Garments.

Let the dead colour be Lamp-black, and some Verdigrease; when that is dry, go over it with Ivory-black and Verdigrease; before you go over it the second time heighten it with White.

6. For Purple Garments.

Oyl Smalt, tempered with Lake and White-Lead, heighten it with White-Lead.

7. Orange Colour.

Red-Lead and Lake, lay the lightest parts of all with Red-Lead and White, the mean parts with Red-Lead alone, the deeper parts with Lake, if need require heighten it with White.

8. Hair Colour.

Umber and White for the ground, Umber and Black for the deeper shadows, Umber and English Oker for mean shadows, for heightning White with a little English Oker.

CHAP.

that

CHAP. VII.

To temper Colours for several occasions.

IN Landskip, variety of Colours are required; I will therefore begin with those first.

Colours for the Skie.

For the Aiery skie that feems a great way off, take Oyl-Smalt or Bife, and temper it with Linfeed-Oyl, for a Red sky use Lake and White, and for Sun-beams or Yellow clouds appearing at Sun-rising or setting, use Massicote and White; for Clouds in a storm, or for a Night-sky use Indico deepned with Black, and heightned with White.

Colours for Trees.

For some use Lake, Umber, and White; for others Charcoal and White, for others Umber, Black, and White, with some Green, you may add Lake, and sometimes Vermilion among your other Colours.

Of several Greens in Landskip.

For a light Green use Pink and Masticote heightned with White.

For a fad Green, Indico and Pink heightned with Masticote.

You may make Greens of any degree whatfoever.

In Painting of Landskip I shall say nothing here, that that which I have already faid in the Sixth Chapter of the Book of Limning being sufficient.

Things meet to be known.

OYL-Colours if they be not used presently, will have a skin grow over them, and in time will quite dry up; wherefore if you have any quantity of Colours grownd, to keep them from skinning or drying, set them in a vessel of fair water, three or four inches under water, and they will not skin nor dry.

If your Grinding-stone be foul, grind Curriers shavings upon it, afterwards crumbs of bread, and

it will fetch off the filth.

If your Pencils be foul, dip the ends of them in Oyl of Turpentine, and squeeze them between your

fingers.

When you work in Oyl, let a little pot of Oyl fland by you, into which dip your Pencil, and ftreak it by the fide of the pot, and the Colour will go out that is within it, and you may use it with another Colour.

The Discovery.

How to Cleanse any Old Painting, so as to preserve the Colours; with cautions to those that through ignorance have in stead of Cleansing, quite Defaced or irrecoverably lost the Beanty of good colours in an Old piece of Painting.

To Cleanse any old Picture in Oyl.

Ake your purest white Wood-ashes you can get, and sist them very well in a sine lawn sieve; or else some Smalt, which is as some call it Powder-blew, and with a fine Spunge and sair water wash the Picture you intend gently over, but be sure you have a great care of the Shadows; for by the ignorance of many persons many good Picture hath been abused; but having carefully wash'dit, as before mentioned, take some of these Vernishes, of which there be several, but some are more prejudicial than others, therefore choose those which may upon occasion be wash'd off again.

As Gum-water purely strain'd, or pure Sizegelly, or the whites of Eggs well beaten; all these

will wath off.

Your common Vernish will vernish over any dark part of a Picture.

But your distill'd Vernish is the best of all; this

will not wash off.

But observe, that when you have wash'd the Pi-

cture, you must dry it very well with a clean cloth very dry before you vernish it.

Divers there be which have pretended to be well skill'd or knowing in the Cleanling of Pictures, and skill in Painting, and have undertaken the spoyling of things they have been unworthy to understand; as with Sope, or Ashes, and a Brush, and divers other inventions, by their ignorance to deface and spoyl those things which otherwise might have been worth great value, and in stead of hindering the Painter of his employment, have indeed created them new work.



OF

WASHING or COLOURING OF

Maps, and Printed Pictures.

The Fifth Book.

O Wash Maps or Printed Pictures is nothing else but to set them out in their proper Colours, which to perform well is a very fine thing. I have seen a Printed Picture printed upon fine Parchment, only washed with Water-colours, which could hardly be distinguished from a Limned piece, and there are many now in England very excellent at it. If any ingenious spirit that delights in Picture, and hath not time or opportunity to study to be a proficient in Painting in Oyl or Limning, I would advise him to practise this, which is very delightfull, and quickly attained; the manner of performing of it I shall here in this Book teach.

CHAP. I.

What things are necessary to be alwayes ready for Washing of Maps or Rictures.

SECT. I. Of Colours for Washing.

ERE note, that all the Colours that are mentioned in the Second Chapter of the Third Book concerning Limning in Water-Colours, are all to be used in Washing or Colouring of Piltures, wherefore provide your self of those Colours, grind them, wash them, and steep and temper them according as you are directed in that Second Chapter; I say, you must have all these Colours in a readiness; and for Colouring of Prints some other Colours, namely these that sollow, which how to order I will anon shew you.

Colours to be used in Washing, which are not used in Limning.

Printers Black, A Vermilion Verditure.

Pranckford-Black, low region Litmos.

Franckford-Black, low region Flory.

i to be had of the best that a few Plate-Printers.

11

110 The Excellency of

YELLOWS. Gumbooge, Yellow-berries, Orpiment.

Also these:

Brazeel and Log-wood grownd, and Turnfoil.

Of these Colours above mentioned, Printers Black, Vermilion, Rosset, Verditure, and Orpiment are to be Grownd as is taught in the second Section of the second Chapter of the third Book, page 70. and therefore, I say, Grind them as you are there taught.

Now for the other Colours above mentioned, they are to be ordered feveral wayes, as followeth.

And

1. Of Litmos, how to order it.

Take fine Litmos and cut it in small pieces, then lay it in steep the space of twenty sour hours at least, in a weak Water of Gum-Lake, [The making of Gum-Lake Water is taught before in the first Chapter of the third Book, pag. 66.] it will be a pure Blew Water, good to Wash withall.

2. Of Flory Blem.

Take Flory Blew and grind it with the white of an Fgg, [beat the white of the Egg with a spoon in a Porenger till it become a clear Water.]

Flory thus grownd, if you add thereto a little

Rosser, it maketh a light Violet-colour.

If you mix with it both Red and White Lead, it maketh a Crane-Feather-colour.

It.

It, and Pink, Masticote, or Gum-booge make a fair Green.

3. Of Gum-booge.

Take Gum-booge and dissolve it in fair springwater, and it maketh a most beautifull and transparent Yellow.

4. Of Yellow-Berries.

Take Yellow-Berries, bruise them a little, and let them steep in Allum-water all night, in the morning you will have a very fair Yellow to Wash withall.

5. Of Turnfoil.

Turnsoil is made of pieces of Linnen cloth dyed of

a kind of Violet-colour,

Take a dish and put some sharp Vinegar therein, together with your Turnsoil, then set the dish over a gentle sire in a chasing dish till the Vinegar boyl and be coloured, then take out the Turnsoil and squeeze it into the Vinegar, to which put a little Gum-Arabick to dissolve; it is an excellent good liquor to shadow upon any Carnation or Yellow.

6. Of Brazeel.

Take Brazeel grownd, to which put a quantity of small Beer, and as much Vinegar, set them in a pan upon a soft sire, and there let it boyl gently a good while, then put therein some sine powder of H 2 Allum

Allum to raise the Colour, as also some Gum-Arabick to bind it; boyl it so long till it taste strong on the tongue, it maketh a very transparent Red.

7. Of Log-wood.

If you boyl Log-wood grownd in all respects as you did your Brazeel, it will make a very fair transparent Purple-colour.

SECT. II. Of other necessaries.

I. Of Allum-water, how to make it.

Take a quarter of a pint of Allum, beat it to powder, and boyl it in a quart of fair Water till it be diffolved.

With this Water wet over your Pictures that you intend to colour, for it will keep the Colour from finking into the Paper, and it will add a luftre unto the Colours, and make them flow fairer; and it will make them continue longer without fading: you must let the Paper dry of it self after you have wetted it, before you lay on there Colours, or before you wet it again; for some Paper will need wetting four or five times.

But if you intend to Varnish your Pictures after you have Coloured them, you must first Size them, that is, rub them over with white Starch new made with a Brush very fine, in stead of doing them with

Allum-

Allum-water, be fure you fize it all over, or else the Varnish will fink through; if your Varnish be too thick, put into it so much Turpentine-oyl as will make it thinner.

2. How to make Size.

Take some Glew, and let it steep all night in water to make it the readier to melt in the morning, then set it on a coal of fire to melt, to try whether it be neither too stiff nor too weak, for the meanest is best; take a spoonfull thereof and set it in the air to cool, or sill a Mussel-shell of it, and let it swim in cold water to cool the sooner; if it be too stiff, when it is cold put more water to it, if too weak, then put more Glew to it; and when you use it make it luke-warm.

This is to wet your Cloths in, if you intend to paste your Maps or Pictures upon Cloth, you may use white Starch to wet your sheet, and wring it out and strain it upon a frame, or nail it upon a wall or board, so paste your Maps or Pictures thereon.

3. How to temper Gold to Write with a Pen or Pencil.

Take the sweepings of leas-Gold, such as Book-binders sweep off their Books, or lease-Gold it self, and with stiff Gum-water, with a pretty deal of white Salt, grind them very well together, and put it into a glass, and put a quantity of fair water as will sufficiently cover it, to make the stiff-

water dissolve, that so the Gold may settle to the bottom, and let it stand sour or sive dayes, then pour away the water and put clean water to it again, if you find the Gold dirty, refresh it again the third time, then pour it away and take clean water again, and a little Salt-Armoniack and great Salt, and put it in a gally-pot, and stop it very close, and let it stand a week, then take it out and put it into a a piece of sheeps-skin when the grain is taken off, tie it up close, and hang it up that the Salt may fret from it; then take the Gold and temper it with the white of an Egg or Gum-water: so use it with Pen or Pencil.

4. Of Pencils.

Provide Pencils of all forts, both pointed and fitch; a large Brush to paste your Maps upon Cloth withall; another to Wet your Paper with Allumwater; a third to Starch the face of your Picture withall before you colour it; and a fourth Brush to Varnish withal.

CHAP. II.

Of other Colours for Washing, both Simple and Compounded.

1. How to make a Green colour of Copper-plates.

Ake any shreds of Copper and put distilled Vinegar to them; set them in a warm place until the Vinegar become Blew, then pour out that Vinegar into another pot well leaded, and pour more Vinegar upon the Copper, letting that stand until it be of a Blew colour, then pour it into the former liquor; this you may do so otten until you have liquor enough, then let the liquor stand in the sun or upon a slow fire till it be thick enough, and it will be a good Green.

2. To make a Green another way.

The best is Cedar-green, but that is dear, therefore you may take green Bise and steep it in Vinegar, then strain it through a linnen rag, then grind it well with fair water, and put to it a little Honey, and let it be well dryed, and when you use it mix it with a little Gum-water.

3. Another Green.

Take the juyce of Rew, and a little Verdigreafe, H 4 and and a little Saffron, and grind them well together, and use it with a little Gum-water.

4. For light Greens.

Sup-greens, Flower de Bise, or Tamny-green, these need no grinding, only steep'd in fair water, Verditer and Cerus mixt with a little Copper-green, makes a good light colour.

5. To Shadow Greens.

Indico and Yellow-berries will do yery well.

6. Greens for Landskips and Rocks.

Temper your Green with white Pink, Bise, Maflicote, Smalt, or Indico, or Ceruss.

Blew Verditer mixt with a few Yellow-berries,

make another Green.

7. To make a Blew.

There is Venice-Ultamarine, but this is very dear; there are Bises of several forts, deeper or paler; there is Smalt and Verditer; grind any of these with Gum-water.

8. Of shadowing Blews.

There is Indico, Litmos, or Flory, take any of these, they need no grinding, steep them in the lees lees of Sope-ashes, when you use them put Gumwater to them with discretion

9. To make a Brown.

Take Cerus, Red-Lead, English-Oker, and Pink,

10. Spanish Brown.

Its a dirty colour, yet of great use if you burn it till it be red hot; but if you would colour any hare, horse, or dog, or the like, you must not burn it, but to shadow Vermilion, or to lay upon any dark ground behind a Picture, or to shadow Berries in the darkest places, or to colour any wooden Poste, Wainscot, bodies of Trees, or any thing else of Wood, or any dark ground on a Picture.

II. How to make an Orange-colour.

Red-Lead is the nearest to an Orange, put a few Yellow-berries into it, makes a good Orange.

12. A Fleß-colour.

Take of White and a little Lake, and some Red-Lead mixed, you may make it light or red as you please, by adding more or less White in shadowing the Cheeks and other places, if you would have a fwarthy complexion; and to distinguish the Mans flesh from the Womans, mingle a little yellow Oker among your Flesh. beal

13. Colours for the Skie.

Light Masticote, or Yellow-berries, and White for the lowest and lightest places; red Posset, White for the next degree; blew Bise and White for the other; and blew Bise for the highest, for want of Bise use Verditer; these must be worked together; you must not receive any sharpness in the edge of your Colour, and they must be so laid on, that you cannot perceive where you first began to lay them, you must so drown them one in another.

14. To make colours for Presious stones.

Verdigrease with Varnish makes an *Emerald*, and with *Florence* Lake it makes a *Ruby*, and with Ultramarine it makes a *Saphire*.

15. Colours for Landskips.

For the faddest Hills use burnt Umber, for the lightest places put some Yellow to the burnt Umber; and for the other Hills lay Copper-green thickned on the fire, or in the Sun; for the next Hills further off, mix some Yellow-berries with Copper-green, and let the fourth part be done with green Verditer; and the furthest, faintest places with blew Bise, and for want of that, with blew Verditer mingled with White sor the lightest places, and shadowed with blew Verditer in the shadows indifferent thick; the Highwayes do with Red-Lead

Lead and White, and for variety use yellow Oker, and shadow it with burnt Umber, and you may use it for sandy Rocks and Hills; the Rocks you may do with several colours, in some places Black and White, in other places with Red-Lead and White, and some with Blew and White, and other colours, such as you judge are convenient, and do most resemble Rocks, and let them be pleasant colours; the Water must be black Verditer and White, shadowed with green and with blew Verditer; when the Banks cast a green shadow upon the Water, and when the Water is dark in the shadows, then shadow it with a little Indico and Green thickned, and some blew Verditer.

16. Colours for Buildings.

When you colour Buildings, do it with as much variety of pleasant colours as possible can be imagined, yet not without reason, and let discretion rule you in mixing your Colours; in colouring of Buildings you may use sometimes White and Black for the Wall, Conduits, or other things; for Brickhouses and others you may use Red-Lead and White; when many Houses stand together, colour them with various colours as you can; about Buildings use sometimes Umber and White, and sometimes Lake and White, or Red-Lead and White for variety.

17. How to Shadow every colour in Garments, or Drapery.

Take this Rule, that every Colour is made to shadow it self, or if you mingle it with White for the light, and so shadow it with the same colour unmingled with White, else take off the thinnest of the colour for the light, and so shadow it with the thickest bottom of the colour; if you will have your shadow of a darker colour, then the colour it self is to shadow the deepest places.

CHAP. III.

General Rules to be observed.

Ap-green is only used to shadow other Greens, and not to be laid for a ground in any Garment.

2. Lake must not be shadowed with any colour, for it is a dark Red; but for variety you may shadow it sometimes with Bise, or blew Verditer, which will make it shew like changeable Tassata.

3. Blew Verditer is shadowed with thin Indico.

4. Blew Bise is shadowed with Indico in the darkest colours; Yellow-berries, the natural shadow for it is Umber, but for beauties sake it is seldome shadowed with Umber, but with Red-Lead, the darkest touches with Spanish-Brown; and for varieties

varieties sake its shadowed with Copper-green thick, and with blew Bife or blew Verditer.

What Colours sets off best together.

1. Whites are very usefull in all colours, and sets off Black and Blew very well; but Blacks are not much used, but upon necessary occasions in some things, as your judgement shall direct you.

2. Reds fets off well with Yellows.

3. Yellows fets off well with Reds, sad Blews,

Greens, Browns, Purples.

4. Blews fets off well with Reds, Yellows, Whites, Browns, and Blacks; but Blews fet not off well with Greens and Purples.

5. But Greens fets off well with Purples and

Reds.

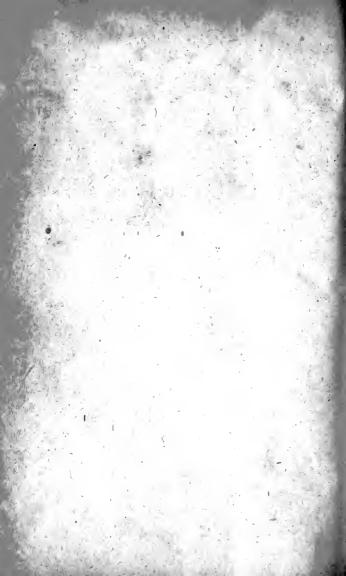
SECT. II. Directions for the Mixing of your Colours.

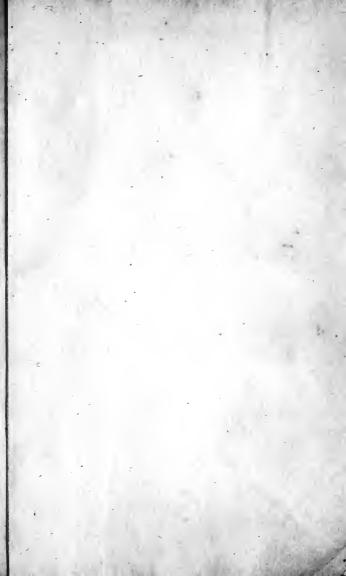
To mix any Colour, be carefull that you make it not too fad; when you mix your Colours be carefull you put not your Pencils out of one Colour into another, for it will spoil and dirty your other Colours, except you wash your Pencils clean.

When you mix any Colours stir them well about the water, being well coloured pour it out into a Shell, and stir the rest of the Colours and mingle them together; pour out the Colour first, that you may the better know what quantity of the sadder will serve.

FINIS.









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